



PRECISION GROUND FLAT STOCK, reg, O/S

\$MART FLAT STOCK

HARD FLAT

EDM BLOCK HARDENED

DRILL ROD

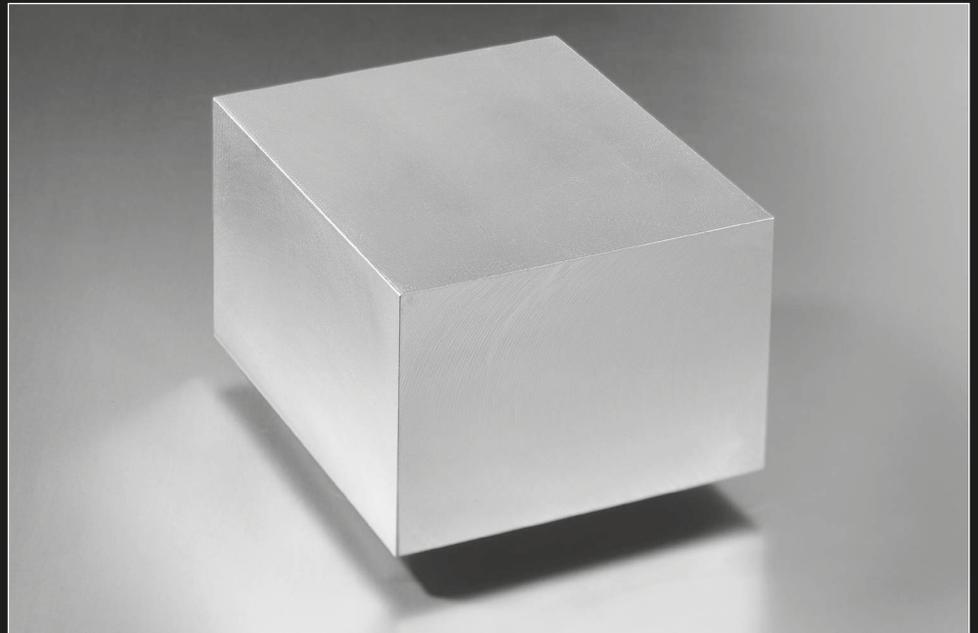
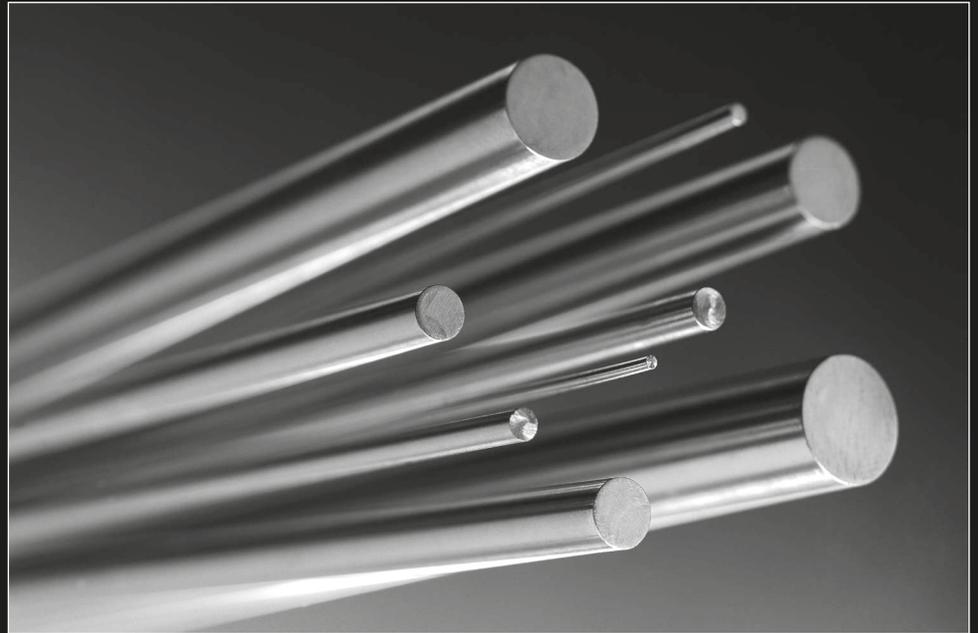
COLD FINISHED ROUNDS

DECARB FREE ROUNDS

THE POWER OF STEEL GRADE VARIETY!

A2	L6							410
A8 mod./ Chipper	O1	Toolox 33	420 ESR					420
D2	P20	Toolox 44	420 LC					420 mod.
H10	P20 PH	W1	420FM			303		420RM
H13	P20+Ni	1018/A36	5120			304		430F
H13 ESR	S1	1045	52100/ L1	HSS M2	316L / 316	440B		4140 / 4142
L3	S7	2990mod.	6F7 ESR	HSS PM M4 HC	316Ti	440C		5115





ABRAMS PREMIUM FLATS, ROUNDS, BLANKS AND BLOCKS!

BECOME BETTER THAN YOUR COMPETITION !

WIN WITH ABRAMS PREMIUM STEEL

- + **44** steel grades
- + More than **53,000** items
- + As **Flats** and **Rounds**
- + In **Imperial** and **Metric** Sizes
- + **NO** minimum order value
- + **NO** minimum order quantity
- + **Specials** on request
- + **Same day shipping** (subject to availability)
- + From our **Production Site / Warehouse** in Illinois, U.S.A.

= Sum of your competitive advantages!

PRODUCTION + STOCK !

3 MAIN REASONS WHY ...

ABRAMS INDUSTRIES IS AN APPROVED SUPPLIER FOR MANY TOP US INDUSTRIAL COMPANIES:



① AGILITY

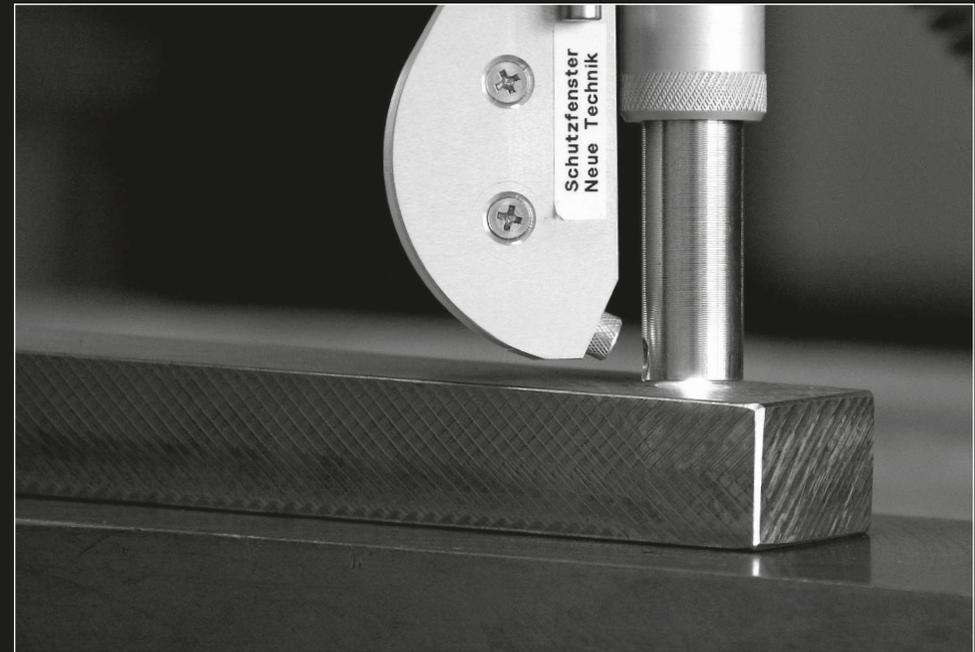
due to our deep inventories of raw material and production capacity in our PRODUCTION SITE in Illinois, U.S.A.

② FAST SHIPPING

due to our finished stock inventories.

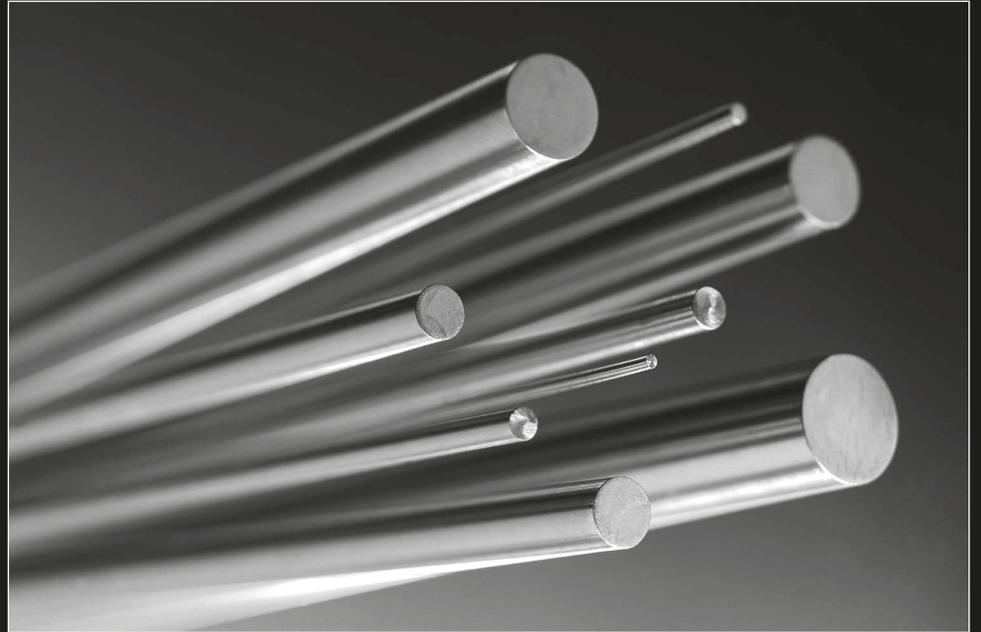
ABRAMS – SAVES TIME AND MONEY!

QUALITY !



③ PREMIUM QUALITY

because of the availability of a Positive Steel Identification provided by certified Spectrometer Analysis.



TOOL STEEL

HIGH SPEED STEEL

STAINLESS STEEL

HEAT-TREATABLE STEEL

CASE HARDENING STEEL

ABRAMS PREMIUM FLATS AND ROUNDS!

CONSTANTLY EVOLVING !

... that is **ABRAMS INDUSTRIES**.



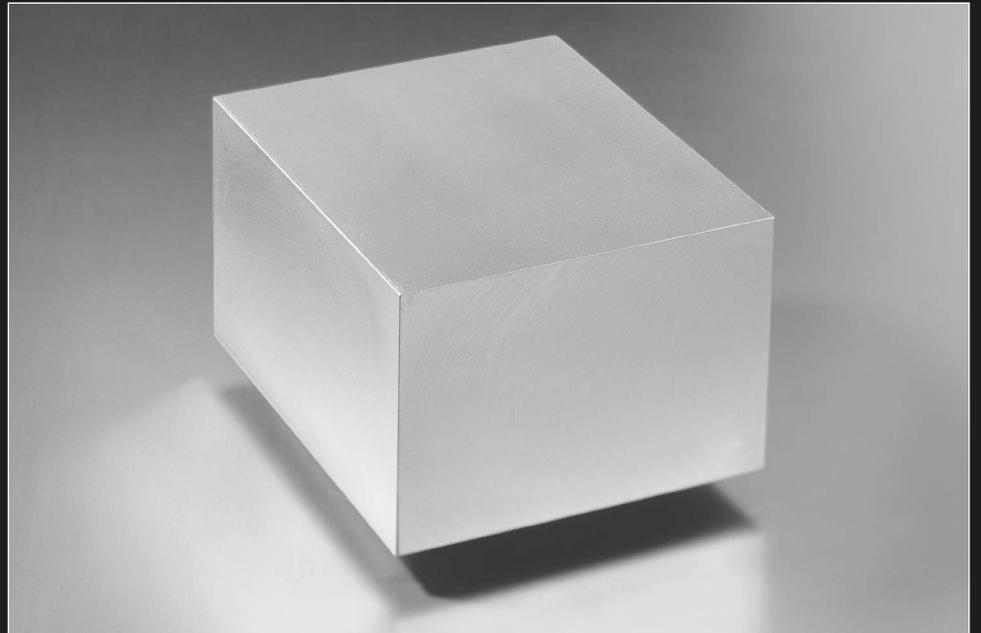
TOOL STEEL

HIGH SPEED STEEL

STAINLESS STEEL

HEAT-TREATABLE STEEL

CASE HARDENING STEEL



ABRAMS PREMIUM BLANKS AND BLOCKS!

NEW TO THE AMERICAN MARKET !

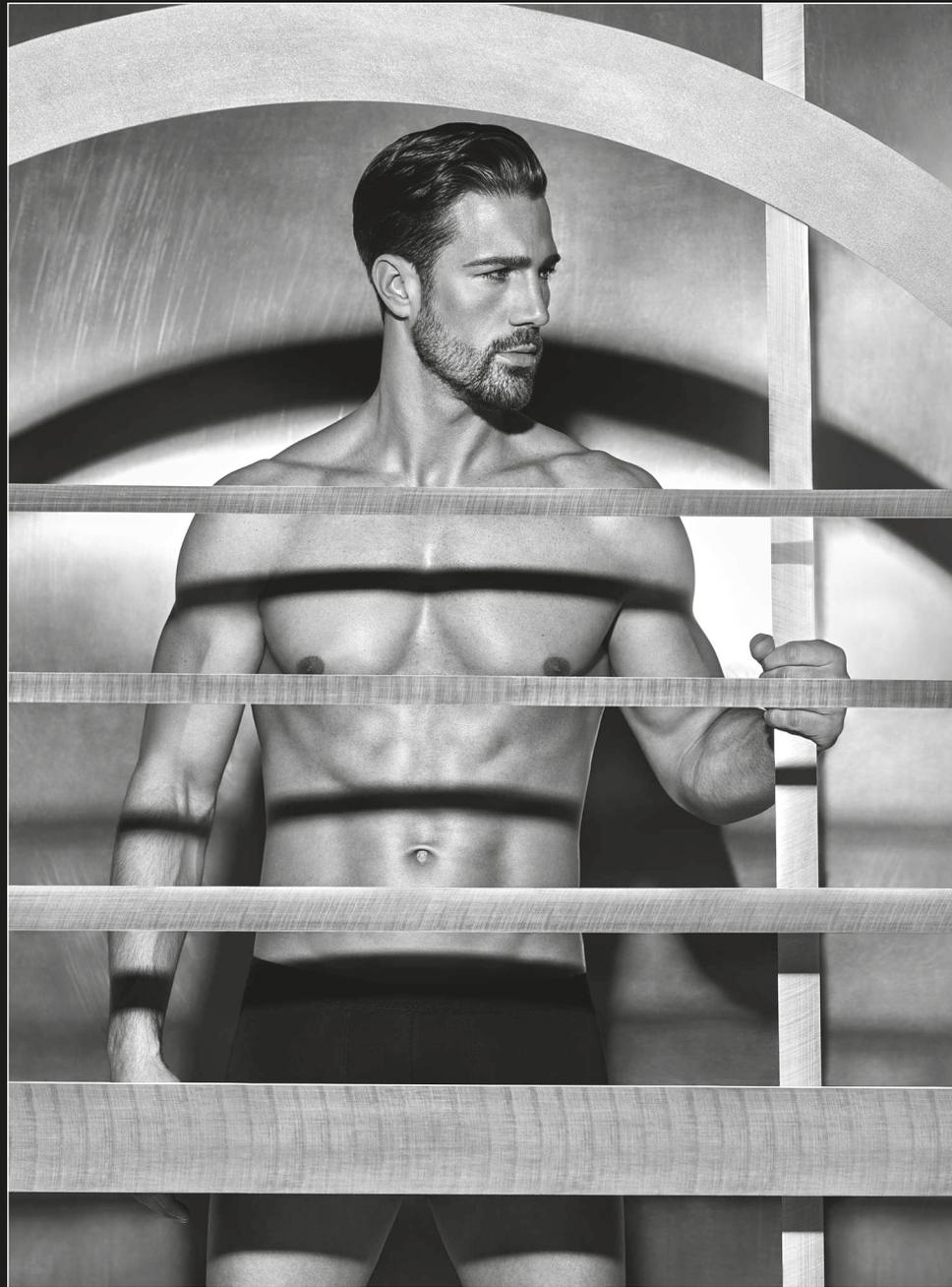
Smart Flat Stock: SAVES YOU TIME - SAVES YOU MONEY

Always close to your final dimensions.



ABRAMS - SAVES TIME AND MONEY!

ABRAMS!
PREMIUM STEEL



WATCH THE MAKING OF THE
4TH MOTIF FOR CALENDAR
2016 / 2019



ABRAMS VARIETY!

... 44 DIFFERENT STEEL GRADES

						410	
A2	L6					420	
A8 mod./ Chipper	O1	Toolox 33	420 ESR			420 mod.	
D2	P20	Toolox 44	420 LC		303	420RM	
H10	P20 PH	W1	420FM		304	430F	
H13	P20+Ni	1018/A36	5120		314	431	4140/ 4142
H13 ESR	S1	1045	52100/ L1	HSS M2	316L/ 316	440B	4140 PH/ 4142 PH
L3	S7	2990mod.	6F7 ESR	HSS PM M4 HC	316Ti	440C	5115

THE ABRAMS STEEL GUIDE !

Our patented application can be downloaded free of charge onto your smartphone (iPhone/android phone) or tablet (iPad/android tablet), as well as being available as a free web browser version on your PC (see abrams-steelguide.com).

The following graphics have been taken from the Android version.

A2	L6						410
A8 mod. Chipper	D1	Toolox 33	420 ESR				420
D2	P20	Toolox 44	420 LC				420 mod.
H10	P20 PH	W1	420FM			303	420RM
H13	P20+Ni	1018 / A36	5120			304	430F
H13 ESR	S1	1045	52100 / L1	HSS M2	316L / 316	440B	4140 / 4142
L3	S7	2990 mod.	6F7 ESR	HSS PM M4 HC	316Ti	440C	5115

TWO POSSIBLE WAYS TO START

i.e. you require TOOL STEEL for a stamping tool.

STEP 1 A

You know the technical requirements and you are looking for the suitable steel grade.

STEP 1 B

Choose a steel grade you know and usually work with.



In the ABRAMS STEEL GUIDE menu you will find a full text search, a summary of technical properties, a list of specifications we deliver and a glossary of steels, alloys and heat treatments.



Your desired steel grade will be shown with first indicative traits.

ABRAMS STEEL GUIDE

Patent No.: US 8,463,771 B2

Date of Patent: June 11, 2013



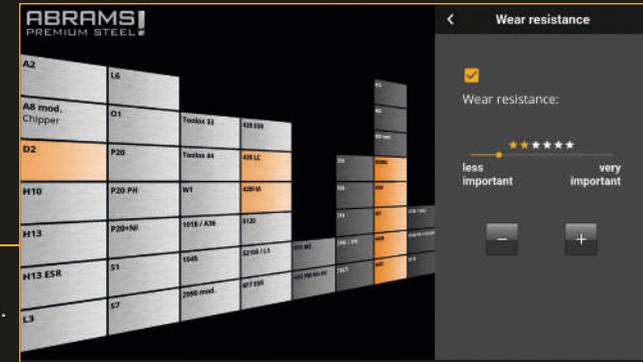
STEP 2 A

For example, click to open the property view.

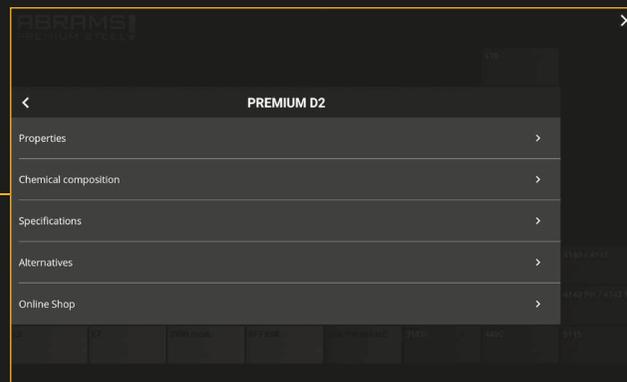
Choose the most important technical properties – in any desired combination.

STEP 3 A

Click to choose each of the properties to optimize them.



Here you can optimize any property, such as wear resistance – e.g. if it is less important or very important for your stamping tool. You immediately get the steel grade you need.



STEP 2 B

Click to get the detailed view.

All the details of the chosen steel grade are provided: technical properties, chemical composition and specifications. Search for alternatives and get direct access to our online shop.

STEP 3 B

Here we have chosen the function "alternatives to the grade AISI D2".



As a result, a highlighted list of steel grades appears with similar or possibly better properties than AISI D2. Adjust or delete single properties to find the ideal steel grade for your stamping tool.

ABRAMS ART PROJECT

“EXCELLENT WORK!” ...

... is the praise that we receive from our customers and partners.

ABRAMS Industries is proud to produce a high quality photographic calendar, which has been very highly coveted by our valued customers and partners. Not to mention the honor of having had our calendar recognized multiple times in the “JAHRBUCH DER WERBUNG / GERMANY” (the renowned Yearbook of Advertising and Marketing) as well as further accolades in a variety of trade journals.

Through our photographic art project, we have sought to contrast the highly technical qualities of our steel with the warmth of the human form and the beauty of both with a modern interpretation. To date, our efforts have been presented in 7 limited edition art calendars, which we trust will continue to enrich your working day.

We have staged iconic cultural symbols with the perfection and variety of ABRAMS PREMIUM STEEL and ABRAMS PREMIUM ALUMINUM products, under the guidance of our Art Director Ms. Nur Hayat Nezir.

The result: 13 exceptional motifs with models from Milan, Amsterdam and Berlin, taken by the photographer Benjamin Becker.

The art calendar is a limited release to our valued customers and partners around the world.

To view the making of the ABRAMS Art Project 2022 / 2025, simply scan the QR code:





FLATS !

Below are our flats in different categories in imperial as well as metric sizes. Every item is available in different **thickness**, **width** and **length**. On request – specific to your needs!

IMPERIAL



Precision Ground Flat Stock, regular [GFS reg]

For example: 3/4" x 4" x 36" reg

- **Thickness** ground, tol. +/-0.001"
- **Width** ground or fine milled, tol. +0.005" / -0.000"
- **Length** milled or saw cut, tol. +0.125" / +0.500"



Precision Ground Flat Stock, oversize [GFS O/S]

For example: 3/4" x 4" x 36" O/S

- **Thickness** ground, tol. +0.010" / +0.015"
- **Width** ground or fine milled, tol. +0.010" / +0.015"
- **Length** milled or saw cut, tol. +0.125" / +0.500"



\$mart Flat Stock [\$mart] Standardized Precision Blanks

For example: 3/4" x 4" x 24"

- **Thickness** ground or fine milled, tol. +0.015" / +0.035"
- **Width** saw cut, tol. +0.125" / +0.250"
- **Length** saw cut, tol. +0.500" / -0.000"



EDM Block hardened [EDM]

For example: 1/2" x 4" x 4"

- **Thickness** ground or fine milled, tol. +0.010" / -0.000"
- Square dimension ground or fine milled, tol. min. +0.0125"
- Grain structure is perpendicular in relation to top & bottom.

METRIC



Precision Ground Flat Stock Metric, regular [GFSM reg] acc. to DIN* 59350

For example: 20.0 x 100.0 x 1,000 mm

- **Thickness** ground or fine milled, tol. +0.05 / -0 mm
 - **Width** ground or fine milled, tol. +0.2 / -0 mm
 - **Length** milled or saw cut, tol. +35 / -0 mm
- Exception: AISI 1045: **T** +0.25 / -0 mm; **W** +0.4 / -0 mm



Precision Ground Flat Stock Metric, oversize [GFSM O/S]

For example: 20.3 x 100.3 x 1,000 mm

- **Thickness** ground or fine milled, tol. +0.4 / -0 mm
- **Width** ground or fine milled, tol. +0.4 / -0 mm
- **Length** milled or saw cut, tol. +35 / -0 mm



\$mart Flat Stock Metric [\$martM] Standardized Precision Blanks Metric

For example: 20.3 x 103 x 600 mm

- **Thickness** ground or fine milled, tol. +0.4 / -0 mm
- **Width** saw cut, tol. +3 / -0 mm
- **Length** saw cut, tol. +15 / -0 mm



Hard Flat Metric [HardM] Hardened Standardized Blanks Metric

For example: 10.2 x 250 x 500 mm

- **Thickness** ground or fine milled, tol. +0.2 / -0 mm
- **Width** saw cut or sheared, tol. +10 / -0 mm
- **Length** saw cut or sheared, tol. +10 / -0 mm

Flatness tolerance: +0.2 / -0 mm across the item (aimed for)

*DIN: DEUTSCHE INDUSTRIE NORM (GERMAN INDUSTRY STANDARD) !

Precision ground flat stock is a bar with a sharp-edged, rectangular or square cross-section made of tool steel with finely machined, decarburization-free longitudinal surfaces. In Germany, it is standardized in DIN 59350. Precision ground flat stock is used primarily as a semi-finished product in machine, tool, fixture and mold construction.

For more details on our shapes see: us.abrams-industries.com/product-overview



ROUNDS !

Below are our rounds in different categories in imperial as well as metric sizes.

Any item is available in different **diameters** and / or **length**. On request – specific to your needs!

Shapes

IMPERIAL



Drill Rod [DR] Precision Round Bars

For example: DR 3/4" x 36"

Turned, ground & polished (TGP)

- Tol. Dia. < 1/8": +/-0.0003", L +0.125" / -0.000"
- Tol. Dia. 1/8" to < 1/2": +/-0.0005", L +0.125" / -0.000"
- Tol. Dia. 1/2" to 2": +/-0.001", L +0.125" / -0.000"



Cold Finished Rounds [CF] Precision Round Bars

For example: CF 3/4" x 36"

Drawn, smooth turned, ground, or ground and polished

- Tol. Dia. < 1/2": +/-0.0015", L +tol. / -0.400"
- Tol. Dia. 1/2" to < 1-1/2": +/-0.0025", L +tol. / -0.400"
- Tol. Dia. 1-1/2" to 4": +/-0.004", L +tol. / -0.400"

These are maximum tolerances. For more exact tolerances call our sales team.



Decarb Free Rounds [DCF] Oversize Round Bars

For example: DCF 3/4" x 36"

Peeled or rough-turned

- Tol. Dia. min. +0.010", L +tol. / -0.400"
- Exception: 4XX Series stainless steel, tol. Dia. +tol. / -0.000", L +tol. / -0.400"

These steel rounds are oversized to finish to nominal diameter.

METRIC



Drill Rod Metric [DRM] Precision Round Bars Metric

For example: DRM 10.0 mm x 914 mm (36")

Turned, ground & polished (TGP) - ISO h9

- Tol. Dia. ≤ 10.0 mm: +0 / -0.036 mm, L +tol.
- Tol. Dia. > 10.0 mm to 18.0 mm: +0 / -0.043 mm, L +tol.
- Tol. Dia. > 18.0 mm to 25.0 mm: +0 / -0.052 mm, L +tol.

These are maximum tolerances. For more exact tolerances call our sales team.



Cold Finished Rounds Metric [CFM] Precision Round Bars Metric

For example: CFM 10.0 mm x 914 mm (36")

Drawn, smooth turned, ground, or ground and polished (ISO h9)

- Tol. Dia. ≤ 10.0 mm: +0 / -0.036 mm, L +tol.
- Tol. Dia. > 10.0 mm to 18.0 mm: +0 / -0.043 mm, L +tol.
- Tol. Dia. > 18.0 mm to 25.0 mm: +0 / -0.052 mm, L +tol.

These are maximum tolerances. For more exact tolerances call our sales team.

STEEL CATEGORIES !

Steel grades are classified by their **technical properties** and/or by their **intended use**.

For example: Cold work steel, hot work steel, plastic mold steel, high speed steel, corrosion resistant steel or case hardening steel.

Steel grades are often assigned to several classification groups.

For more details on our shapes see: us.abrams-industries.com/product-overview



ABRAMS – THE POWER OF STEEL GRADE VARIETY!

ABRAMS!
PREMIUM STEEL



ABRAMS PREMIUM TOOL STEEL!

ABRAMS!
PREMIUM STEEL

TOOL STEEL I

STEEL GRADE - AISI

	GFS reg 18" - 36"	GFS O/S 18" - 36"	GFS reg 24"	GFSM reg 500 mm, 1,000 mm	GFSM O/S 500 mm, 1,000 mm	\$mart 12" - 24"	\$martM 300 mm, 600 mm	HardM 250 mm, 500 mm	EDM (hardened)	DR 36"	DRM 914 mm (36")	CF 18" - 36"	CFM 914 mm (36")	DCF 18" - 36"	Max. delivery hardness (annealed / pre-hardened) [BHN]	Delivery hardness (hardened) approx. [HRC]	Tensile strength (deliv. cond.) approx. [HRC]	Max. working hardness [KSI]	Cold Work Steel	Hot Work Steel	Plastic Mold Steel	High Speed Steel	Stainless Steel	Stainless Steel, corrosion resistant	Heat-Treatable Steel	Case Hardening Steel
PREMIUM A2	✓	✓		✓					✓	✓			✓	241		118.2	62	✓		✓						
PREMIUM A8 mod. / Chipper					✓	✓								250		123.2	60	✓								
PREMIUM D2	✓	✓		✓			✓	✓	✓	✓			✓	255	57	124.7	62	✓		✓						
PREMIUM H10				✓	✓									229		111.6	52		✓	✓						
PREMIUM H13				✓	✓								✓	229		111.6	56		✓	✓						
PREMIUM H13 ESR				✓	✓									229		111.6	56		✓	✓						
PREMIUM L3				✓	✓									223		108.7	64	✓								
PREMIUM L6				✓	✓								✓	250		123.2	54		✓							
PREMIUM O1	✓	✓		✓	✓		✓		✓	✓			✓	229	57	111.6	62	✓		✓						
PREMIUM P20				✓	✓									225		108.8	50	✓		✓						
PREMIUM P20 PH				✓	✓	✓								325		159.5	50	✓		✓						
PREMIUM P20+Ni				✓	✓									325		159.5	50	✓		✓						
PREMIUM S1				✓	✓									229		111.6	60	✓								
PREMIUM S7				✓	✓				✓				✓	225		110.2	60		✓	✓						

IMPERIAL

- Precision Ground Flat Stock, regular [GFS reg]
- Precision Ground Flat Stock, oversize [GFS O/S]
- \$mart Flat Stock [\$mart] - Standardized Precision Blanks
- EDM Block hardened [EDM]
- Drill Rod [DR] - Precision Round Bars
- Cold Finished Rounds [CF] - Precision Round Bars
- Decarb Free Rounds [DCF] - Oversize Round Bars

METRIC

- Precision Ground Flat Stock Metric, regular [GFSM reg] - acc. to DIN* 59350
- Precision Ground Flat Stock Metric, oversize [GFSM O/S]
- \$mart Flat Stock Metric [\$martM] - Standardized Precision Blanks Metric
- Hard Flat Metric [HardM] - Hardened Standardized Blanks Metric
- Drill Rod Metric [DRM] - Precision Round Bars Metric
- Cold Finished Rounds Metric [CFM] - Precision Round Bars Metric
- *DIN: Deutsche Industrie Norm (German Industry Standard)

ABRAMS - THE POWER OF STEEL GRADE VARIETY!



PREMIUM A2 - PRECISION GROUND FLAT STOCK, REGULAR

TOOL STEEL

Length: 18"

IMPERIAL DIMENSIONS in inch

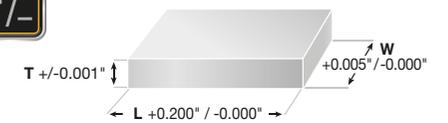
WIDTH	THICKNESS																					
	1/32"	3/64"	1/16"	5/64"	3/32"	7/64"	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1-1/4"	1-1/2"	2"	
3/16"																						
1/4"																						
5/16"																						
3/8"																						
1/2"																						
5/8"																						
3/4"																						
7/8"																						
1"																						
1-1/4"																						
1-1/2"																						
1-3/4"																						
2"																						
2-1/2"																						
3"																						
3 1/2"																						
4"																						
5"																						
6"																						
7"																						
8"																						
10"																						
12"																						



[GFS reg]: Surface Condition
Thickness: ground
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 241 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.95	0.1	0.4	0	0	4.8	0.9	0.15
1.05	0.4	0.8	0.03	0.03	5.5	1.2	0.35



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



Contact us

+1 (331) 234-9900
 sales@abrams-industries.com



Direct access to our online shop

abrams-steel.com/A2-1



Technical Properties

Air hardening cold work steel, good machinability, high wear resistance and improved toughness (reduced occurrence of hard carbides with about 5% chromium compared to 12% chromium in ledeburite AISI D2). Good dimensional stability during heat treatment and easily repairable through welding. Working hardness: 58-62 HRC.



Applications

Blanking tools, stamping tools, dies, punches, trimming tools, cutting tools, thread rolling tools, thread rolling dies, shear knives, circular shear knives, cold pilger mandrels, cold stamping tools, plastic molds.



AISI A2 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/A2

via smartphone / tablet:



PREMIUM A2 - PRECISION GROUND FLAT STOCK, REGULAR

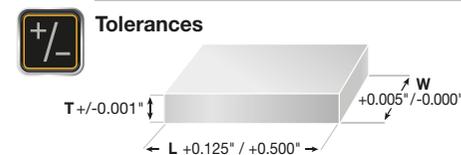
TOOL STEEL

Length: **36"**

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS																						
	1/32"	3/64"	1/16"	5/64"	3/32"	7/64"	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1-1/4"	1-1/2"	2"		
3/16"										■													
1/4"																							
5/16"																							
3/8"																							
1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5/8"		■																					
3/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7/8"																							
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-3/4"	■	■																					
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■		■		■		■		■		■		■		■		■		■		■		■
3"	■		■		■		■		■		■		■		■		■		■		■		■
3 1/2"	■																						
4"	■		■		■		■		■		■		■		■		■		■		■		■
5"	■				■		■		■		■		■		■		■		■		■		■
6"	■		■		■		■		■		■		■		■		■		■		■		■
7"																							
8"	■		■																				
10"																							
12"																							

 **[GFS reg]: Surface Condition**
 Thickness: ground
 Width: ground or fine milled
 Length: milled or saw cut



 **Standard values**
 Delivery condition: maximum 241 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.95	0.1	0.4	0	0	4.8	0.9	0.15
1.05	0.4	0.8	0.03	0.03	5.5	1.2	0.35

 **Don't see your exact dimension(s)?**
 Any size is available in different thicknesses, widths and/or lengths.
 Custom orders on request
 - according to your requirements!

 **Contact us**
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 **Direct access to our online shop**
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 **Technical Properties**
 Air hardening cold work steel, good machinability, high wear resistance and improved toughness (reduced occurrence of hard carbides with about 5% chromium compared to 12% chromium in ledeburite AISI D2). Good dimensional stability during heat treatment and easily repairable through welding.
 Working hardness: 58-62 HRC.

 **Applications**
 Blanking tools, stamping tools, dies, punches, trimming tools, cutting tools, thread rolling tools, thread rolling dies, shear knives, circular shear knives, cold pilger mandrels, cold stamping tools, plastic molds.

 **AISI A2 – all at a glance!**
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/A2

via smartphone / tablet:



PREMIUM A2 - PRECISION GROUND FLAT STOCK, OVERSIZE

TOOL STEEL

Length: 18"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS															
	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/4"	1-1/2"	2"	
	Available Dimensions [■]															
3/16"			■													
1/4"	■		■	■												
5/16"	■		■	■	■											
3/8"	■		■	■	■	■										
1/2"	■	■	■	■	■	■	■									
5/8"	■	■	■	■	■	■	■		■							
3/4"	■	■	■	■	■	■	■		■	■						
7/8"	■		■	■	■	■	■				■					
1"	■	■	■	■	■	■	■		■	■	■	■				
1-1/4"	■	■	■	■	■	■	■		■	■	■	■	■			
1-1/2"	■	■	■	■	■	■	■		■	■	■	■	■	■		
1-3/4"	■	■	■	■	■	■	■		■	■	■	■	■	■		
2"	■	■	■	■	■	■	■		■	■	■	■	■	■	■	
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3 1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"						■	■			■		■				
5"	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■
7"	■		■	■		■	■									
8"	■	■	■	■	■	■	■		■	■		■				
10"	■		■	■	■	■	■		■	■						
12"	■		■	■	■	■	■		■	■		■				

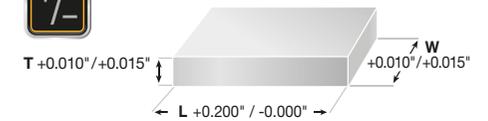


[GFS O/S]: Surface Condition

Thickness: ground
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 241 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.95	0.1	0.4	0	0	4.8	0.9	0.15
1.05	0.4	0.8	0.03	0.03	5.5	1.2	0.35



Don't see your exact dimension(s)?

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Technical Properties

Air hardening cold work steel, good machinability, high wear resistance and improved toughness (reduced occurrence of hard carbides with about 5% chromium compared to 12% chromium in ledeburite AISI D2). Good dimensional stability during heat treatment and easily repairable through welding. Working hardness: 58-62 HRC.



Applications

Blanking tools, stamping tools, dies, punches, trimming tools, cutting tools, thread rolling tools, thread rolling dies, shear knives, circular shear knives, cold pilger mandrels, cold stamping tools, plastic molds.



AISI A2 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/A2

via smartphone / tablet:



PREMIUM A2 - PRECISION GROUND FLAT STOCK, OVERSIZE

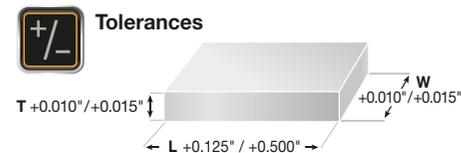
TOOL STEEL

Length: **36"**

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS															
	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/4"	1-1/2"	2"	
3/16"			■													
1/4"	■		■	■												
5/16"	■		■	■	■											
3/8"	■		■	■	■	■										
1/2"	■	■	■	■	■	■	■									
5/8"	■	■	■	■	■	■	■		■							
3/4"	■	■	■	■	■	■	■		■	■						
7/8"	■		■	■	■	■	■				■					
1"	■	■	■	■	■	■	■		■	■	■	■				
1-1/4"	■	■	■	■	■	■	■		■	■	■	■	■			
1-1/2"	■	■	■	■	■	■	■		■	■	■	■	■	■		
1-3/4"	■	■	■	■	■	■	■		■	■	■	■	■	■		
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3 1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"							■	■		■		■				
5"	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
7"	■		■	■		■	■									
8"	■	■	■	■	■	■	■		■	■		■				
10"	■		■	■	■	■	■		■	■						
12"	■		■	■	■	■	■			■		■				

[GFS O/S]: Surface Condition
 Thickness: ground
 Width: ground or fine milled
 Length: milled or saw cut



Standard values
 Delivery condition: maximum 241 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.95	0.1	0.4	0	0	4.8	0.9	0.15
1.05	0.4	0.8	0.03	0.03	5.5	1.2	0.35

Don't see your exact dimension(s)?
 Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!

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Technical Properties
 Air hardening cold work steel, good machinability, high wear resistance and improved toughness (reduced occurrence of hard carbides with about 5% chromium compared to 12% chromium in ledeburite AISI D2). Good dimensional stability during heat treatment and easily repairable through welding. Working hardness: 58-62 HRC.

Applications
 Blanking tools, stamping tools, dies, punches, trimming tools, cutting tools, thread rolling tools, thread rolling dies, shear knives, circular shear knives, cold pilger mandrels, cold stamping tools, plastic molds.

AISI A2 – all at a glance!
 Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/A2

via smartphone / tablet:



PREMIUM A2 - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 500 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS											
	4.2	6.2	8.2	10.3	12.3	15.3	16.3	20.3	25.3	30.3	32.3	
	Available Dimensions [■]											
10.3				■								
12.3					■							
16.3							■					
20.3								■				
25.3	■	■	■	■	■	■	■	■	■			
30.3	■	■	■	■	■	■	■	■		■		
32.3	■	■	■	■	■		■	■	■			■
40.3	■	■	■	■	■	■	■	■	■	■		
50.3	■	■	■	■	■	■	■	■				
60.3		■	■	■	■	■		■				
63.3		■	■	■	■		■					
80.3		■	■	■	■							
100.3		■	■	■								
125.3			■									

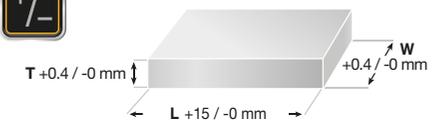


[GFSM O/S]: Surface Condition

Thickness: ground or fine milled
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 241 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.95	0.1	0.4	0	0	4.8	0.9	0.15
1.05	0.4	0.8	0.03	0.03	5.5	1.2	0.35



Don't see your exact dimension(s)?

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Technical Properties

Air hardening cold work steel, good machinability, high wear resistance and improved toughness (reduced occurrence of hard carbides with about 5% chromium compared to 12% chromium in ledeburite AISI D2). Good dimensional stability during heat treatment and easily repairable through welding.
Working hardness: 58-62 HRC.



Applications

Blanking tools, stamping tools, dies, punches, trimming tools, cutting tools, thread rolling tools, thread rolling dies, shear knives, circular shear knives, cold pilger mandrels, cold stamping tools, plastic molds.



AISI A2 – all at a glance!

Datasheets, online shop,
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via smartphone / tablet:



PREMIUM A2 - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 1,000 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS							
	4.2	6.2	8.2	10.3	12.3	15.3	16.3	20.3
	Available Dimensions [■]							
10.3				■				
12.3					■			
16.3							■	
20.3								■
25.3	■	■	■	■	■	■	■	■
30.3	■	■	■	■	■	■	■	
32.3	■	■	■	■	■		■	
40.3	■	■	■	■	■			
50.3	■	■	■	■				
60.3		■	■					
63.3		■	■					
80.3		■						



[GFSM O/S]: Surface Condition

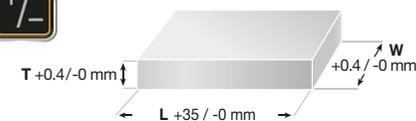
Thickness: ground or fine milled

Width: ground or fine milled

Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 241 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.95	0.1	0.4	0	0	4.8	0.9	0.15
1.05	0.4	0.8	0.03	0.03	5.5	1.2	0.35



Don't see your exact dimension(s)?

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Technical Properties

Air hardening cold work steel, good machinability, high wear resistance and improved toughness (reduced occurrence of hard carbides with about 5% chromium compared to 12% chromium in ledeburite AISI D2). Good dimensional stability during heat treatment and easily repairable through welding. Working hardness: 58-62 HRC.



Applications

Blanking tools, stamping tools, dies, punches, trimming tools, cutting tools, thread rolling tools, thread rolling dies, shear knives, circular shear knives, cold pilger mandrels, cold stamping tools, plastic molds.



AISI A2 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/A2

via smartphone / tablet:



Length: **36"**

IMPERIAL DIAMETERS in inch

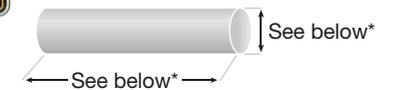
Available Diameters [●]							
1/16"	●	»		»		»	
5/64"	●	17/64"	●	29/64"	●	7/8"	●
3/32"	●	9/32"	●	15/32"	●	1"	●
7/64"	●	19/64"	●	31/64"	●	1-1/8"	●
1/8"	●	5/16"	●	1/2"	●	1-1/4"	●
9/64"	●	21/64"	●	17/32"	●	1-3/8"	●
5/32"	●	11/32"	●	9/16"	●	1-1/2"	●
11/64"	●	23/64"	●	19/32"	●	1-3/4"	●
3/16"	●	3/8"	●	5/8"	●	2"	●
13/64"	●	25/64"	●	21/32"	●		
7/32"	●	13/32"	●	11/16"	●		
15/64"	●	27/64"	●	3/4"	●		
1/4"	●	7/16"	●	13/16"	●		
»		»		»			



[DR]: Surface Condition
Turned, ground & polished (TGP)



Tolerances



Standard values

Delivery condition: maximum 241 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.95	0.1	0.4	0	0	4.8	0.9	0.15
1.05	0.4	0.8	0.03	0.03	5.5	1.2	0.35



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
Custom orders on request
- according to your requirements.



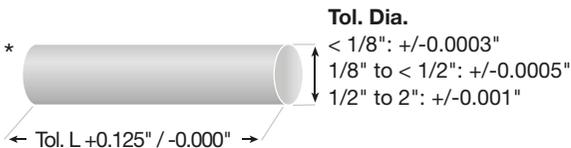
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Technical Properties

Air hardening cold work steel, good machinability, high wear resistance and improved toughness (reduced occurrence of hard carbides with about 5% chromium compared to 12% chromium in ledeburite AISI D2). Good dimensional stability during heat treatment and easily repairable through welding.
Working hardness: 58-62 HRC.



Applications

Blanking tools, stamping tools, dies, punches, trimming tools, cutting tools, thread rolling tools, thread rolling dies, shear knives, circular shear knives, cold pilger mandrels, cold stamping tools, plastic molds.



AISI A2 – all at a glance!

Datasheets, online shop,
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via smartphone / tablet:



PREMIUM A2 - DRILL ROD METRIC

TOOL STEEL

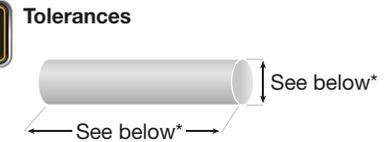
Length: 914 mm (36")

METRIC DIAMETERS in mm

Available Diameters [●]	
3.0	●
4.0	●
5.0	●
6.0	●
8.0	●
10.0	●
12.0	●
15.0	●
16.0	●
20.0	●
25.0	●



[DRM]: Surface Condition
 Turned, ground & polished (TGP) - ISO h9



Standard values
 Delivery condition: maximum 241 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.95	0.1	0.4	0	0	4.8	0.9	0.15
1.05	0.4	0.8	0.03	0.03	5.5	1.2	0.35



Don't see your exact dimension(s)?
 Any diameter is available in different lengths (e.g. round blanks).
 Custom orders on request
 - according to your requirements.



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Technical Properties

Air hardening cold work steel, good machinability, high wear resistance and improved toughness (reduced occurrence of hard carbides with about 5% chromium compared to 12% chromium in ledeburite AISI D2). Good dimensional stability during heat treatment and easily repairable through welding.
 Working hardness: 58-62 HRC.



Applications

Blanking tools, stamping tools, dies, punches, trimming tools, cutting tools, thread rolling tools, thread rolling dies, shear knives, circular shear knives, cold pilger mandrels, cold stamping tools, plastic molds.



AISI A2 – all at a glance!

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WATCH THE MAKING OF THE
10TH MOTIF FOR CALENDAR
2016 / 2019



ABRAMS PREMIUM DECARB FREE ROUNDS - PEELED OR ROUGH-TURNED!

ABRAMS!
PREMIUM STEEL

PREMIUM A2 - DECARB FREE ROUNDS

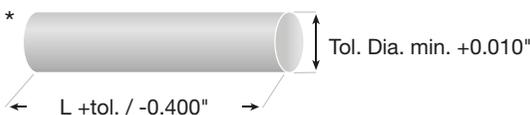
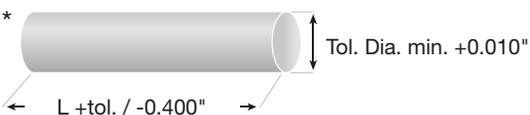
TOOL STEEL

Length: 18"

Length: 36" IMPERIAL DIAMETERS in inch

Available Diameters [●]	
1/4"	●
1/2"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

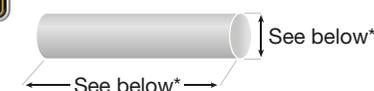
Available Diameters [●]	
1/4"	●
1/2"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



[DCF]: Surface Condition
Peeled or rough-turned



Tolerances



Standard values

Delivery condition: maximum 241 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.95	0.1	0.4	0	0	4.8	0.9	0.15
1.05	0.4	0.8	0.03	0.03	5.5	1.2	0.35



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
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[18"] - abrams-steel.com/A2-22
[36"] - abrams-steel.com/A2-23



Technical Properties

Air hardening cold work steel, good machinability, high wear resistance and improved toughness (reduced occurrence of hard carbides with about 5% chromium compared to 12% chromium in ledeburite AISI D2). Good dimensional stability during heat treatment and easily repairable through welding.
Working hardness: 58-62 HRC.



Applications

Blanking tools, stamping tools, dies, punches, trimming tools, cutting tools, thread rolling tools, thread rolling dies, shear knives, circular shear knives, cold pilger mandrels, cold stamping tools, plastic molds.



AISI A2 – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/A2

via smartphone/tablet:



PREMIUM A8 mod. / Chipper - \$smart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

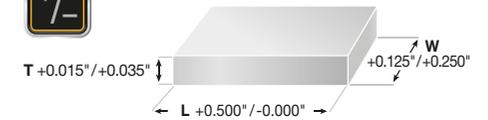
WIDTH	THICKNESS									
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
	Available Dimensions [■]									
1"	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.45	0.7	0.35	0	0	7.3	1.3	1.3
0.5	0.9	0.45	0.02	0.005	7.8	1.5	1.5



Don't see your exact dimension(s)?

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Technical Properties

Very robust cold work steel which can be used for a wide range of applications. Has good through-hardening and high toughness (reduced occurrence of hard carbides with about 8% chromium compared to 12% chromium in AISI D2). High cutting power, high wear resistance as well as excellent tempering resistance. Working hardness: 50-60 HRC.



Applications

Blanking tools, stamping tools, embossing tools, forming dies, press dies, die inserts, extrusion dies, reinforcements, cold extrusion tools, tube tools, cutting tools, industrial knives, wood chipping knives, veneer knives.



AISI Chipper – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/A8

via smartphone / tablet:



PREMIUM A8 mod. / Chipper - \$smart FLAT STOCK

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

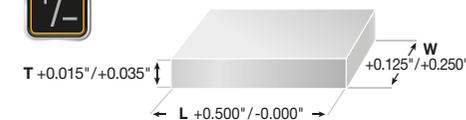
WIDTH	THICKNESS									
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Available Dimensions [■]										
1"	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.45	0.7	0.35	0	0	7.3	1.3	1.3
0.5	0.9	0.45	0.02	0.005	7.8	1.5	1.5



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Technical Properties

Very robust cold work steel which can be used for a wide range of applications. Has good through-hardenedability and high toughness (reduced occurrence of hard carbides with about 8% chromium compared to 12% chromium in AISI D2). High cutting power, high wear resistance as well as excellent tempering resistance.
 Working hardness: 50-60 HRC.



Applications

Blanking tools, stamping tools, embossing tools, forming dies, press dies, die inserts, extrusion dies, reinforcements, cold extrusion tools, tube tools, cutting tools, industrial knives, wood chipping knives, veneer knives.



AISI Chipper – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/A8

via smartphone/tablet:



PREMIUM A8 mod. / Chipper - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

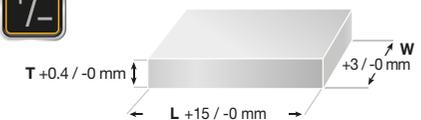
WIDTH	THICKNESS									
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3
	Available Dimensions [mm]									
33	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.45	0.7	0.35	0	0	7.3	1.3	1.3
0.5	0.9	0.45	0.02	0.005	7.8	1.5	1.5



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Technical Properties

Very robust cold work steel which can be used for a wide range of applications. Has good through-hardening and high toughness (reduced occurrence of hard carbides with about 8% chromium compared to 12% chromium in AISI D2). High cutting power, high wear resistance as well as excellent tempering resistance.
 Working hardness: 50-60 HRC.



Applications

Blanking tools, stamping tools, embossing tools, forming dies, press dies, die inserts, extrusion dies, reinforcements, cold extrusion tools, tube tools, cutting tools, industrial knives, wood chipping knives, veneer knives.



AISI Chipper – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
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via smartphone / tablet:



PREMIUM A8 mod. / Chipper - \$smart FLAT STOCK METRIC

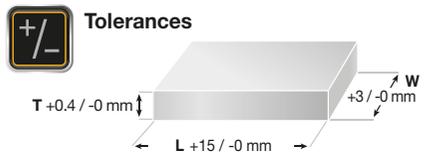
TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS									
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3
	Available Dimensions [mm]									
33	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■

[\$smartM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 250 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.45	0.7	0.35	0	0	7.3	1.3	1.3
0.5	0.9	0.45	0.02	0.005	7.8	1.5	1.5

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Technical Properties
 Very robust cold work steel which can be used for a wide range of applications. Has good through-hardenedability and high toughness (reduced occurrence of hard carbides with about 8% chromium compared to 12% chromium in AISI D2). High cutting power, high wear resistance as well as excellent tempering resistance.
 Working hardness: 50-60 HRC.

Applications
 Blanking tools, stamping tools, embossing tools, forming dies, press dies, die inserts, extrusion dies, reinforcements, cold extrusion tools, tube tools, cutting tools, industrial knives, wood chipping knives, veneer knives.

AISI Chipper – all at a glance!
 Datasheets, online shop,
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via smartphone/tablet:

A2
 A8 mod. /
 Chipper



WATCH THE MAKING OF THE 11TH MOTIF FOR CALENDAR 2019 / 2022



A2

A8 mod. /
Chipper

PERFECTION FROM TIP TO TOE!

ABRAMS!
PREMIUM STEEL

PREMIUM D2 - PRECISION GROUND FLAT STOCK, REGULAR

TOOL STEEL

Length: 18"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS												
	1/16"	3/32"	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
	Available Dimensions [■]												
1/2"	■	■	■	■	■	■	■	■	■				
5/8"										■			
3/4"	■	■	■	■	■	■	■	■	■	■	■		
7/8"												■	
1"	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■		■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■		■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■		■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■		■
6"	■	■	■	■	■	■	■	■	■	■	■		■

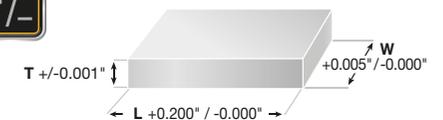


[GFS reg]: Surface Condition

Thickness: ground
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 255 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
1.45	0.1	0.2	0	0	11.0	0.7	0.7
1.6	0.6	0.6	0.03	0.03	13.0	1.0	1.0



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Technical Properties

Secondary-hardening, ledeburitic cold work steel, can be used for a wide range of applications. Low distortion, excellent wear resistance and good toughness. Temper-resistant, even at high hardening temperatures. In addition it can be nitrated without any reduction in hardness despite that it is a cold work steel. Working hardness: 57-62 HRC.



Applications

Blanking tools, precision cutting tools, dies, punches, thread rolling dies, broaches, milling cutters, press tools, shear knives, deep drawing dies, cold rollings, measuring tools, woodworking tools, cold pilger mandrels, plastic molds.



AISI D2 - all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/D2

via smartphone / tablet:



PREMIUM D2 - PRECISION GROUND FLAT STOCK, REGULAR

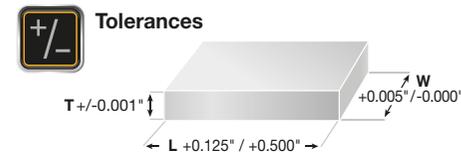
TOOL STEEL

Length: **36"**

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS												
	1/16"	3/32"	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
	Available Dimensions [■]												
1/2"	■	■	■	■	■	■	■	■	■				
5/8"										■			
3/4"	■	■	■	■	■	■	■	■	■	■	■		
7/8"												■	
1"	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■		■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■		■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■		■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■		■
6"	■	■	■	■	■	■	■	■	■	■	■		■

 **[GFS reg]: Surface Condition**
 Thickness: ground
 Width: ground or fine milled
 Length: milled or saw cut



 **Standard values**
 Delivery condition: maximum 255 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
1.45	0.1	0.2	0	0	11.0	0.7	0.7
1.6	0.6	0.6	0.03	0.03	13.0	1.0	1.0

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 **Technical Properties**
 Secondary-hardening, ledeburitic cold work steel, can be used for a wide range of applications. Low distortion, excellent wear resistance and good toughness. Temper-resistant, even at high hardening temperatures. In addition it can be nitrated without any reduction in hardness despite that it is a cold work steel.
 Working hardness: 57-62 HRC.

 **Applications**
 Blanking tools, precision cutting tools, dies, punches, thread rolling dies, broaches, milling cutters, press tools, shear knives, deep drawing dies, cold rollings, measuring tools, woodworking tools, cold pilger mandrels, plastic molds.

 **AISI D2 - all at a glance!**
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/D2

via smartphone / tablet:



A2

A8 mod. / Chipper

D2

PREMIUM D2 - PRECISION GROUND FLAT STOCK, OVERSIZE

TOOL STEEL

Length: 18"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS											
	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	
Available Dimensions [■]												
1/2"	■	■	■	■	■	■	■					
5/8"								■				
3/4"	■	■	■	■	■	■	■	■	■			
7/8"										■		
1"	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■			■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■

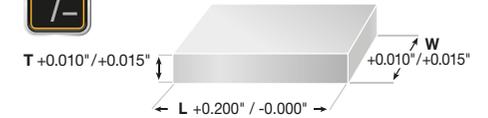


[GFS O/S]: Surface Condition

Thickness: ground
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 255 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
1.45	0.1	0.2	0	0	11.0	0.7	0.7
1.6	0.6	0.6	0.03	0.03	13.0	1.0	1.0



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Technical Properties

Secondary-hardening, ledeburitic cold work steel, can be used for a wide range of applications. Low distortion, excellent wear resistance and good toughness. Temper-resistant, even at high hardening temperatures. In addition it can be nitrated without any reduction in hardness despite that it is a cold work steel. Working hardness: 57-62 HRC.



Applications

Blanking tools, precision cutting tools, dies, punches, thread rolling dies, broaches, milling cutters, press tools, shear knives, deep drawing dies, cold rollings, measuring tools, woodworking tools, cold pilger mandrels, plastic molds.



AISI D2 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/D2

via smartphone / tablet:



PREMIUM D2 - PRECISION GROUND FLAT STOCK, OVERSIZE

TOOL STEEL

Length: **36"**

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS											
	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	
	Available Dimensions [■]											
1/2"	■	■	■	■	■	■	■					
5/8"								■				
3/4"	■	■	■	■	■	■	■	■	■			
7/8"										■		
1"	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■

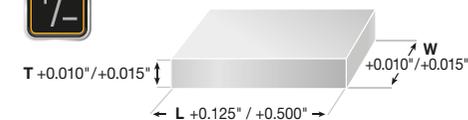


[GFS O/S]: Surface Condition

Thickness: ground
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 255 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
1.45	0.1	0.2	0	0	11.0	0.7	0.7
1.6	0.6	0.6	0.03	0.03	13.0	1.0	1.0



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Technical Properties

Secondary-hardening, ledeburitic cold work steel, can be used for a wide range of applications. Low distortion, excellent wear resistance and good toughness. Temper-resistant, even at high hardening temperatures. In addition it can be nitrated without any reduction in hardness despite that it is a cold work steel.
Working hardness: 57-62 HRC.



Applications

Blanking tools, precision cutting tools, dies, punches, thread rolling dies, broaches, milling cutters, press tools, shear knives, deep drawing dies, cold rollings, measuring tools, woodworking tools, cold pilger mandrels, plastic molds.



AISI D2 – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
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via smartphone/tablet:



A2

A8 mod. / Chipper

D2

PREMIUM D2 - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 500 mm

METRIC DIMENSIONS in mm

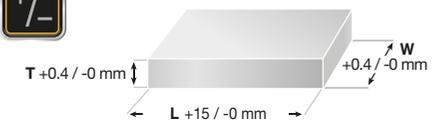
WIDTH	THICKNESS												
	2.2	3.2	4.2	5.2	6.2	8.2	10.3	12.3	15.3	20.3	25.3	30.3	
	Available Dimensions [■]												
6.2					■								
8.2						■							
10.3	■	■	■	■	■	■	■						
12.3								■					
15.3	■	■	■	■	■	■	■	■	■				
20.3	■	■	■	■	■	■	■	■	■	■			
25.3	■	■	■	■	■	■	■	■	■	■	■		
30.3	■	■	■	■	■	■	■	■	■	■	■	■	
40.3	■	■	■	■	■	■	■	■	■	■	■	■	■
50.3	■	■	■	■	■	■	■	■	■	■	■	■	■
60.3	■	■	■	■	■	■	■	■	■	■			
80.3	■	■	■	■	■	■	■	■					
100.3	■	■	■	■	■	■	■						
125.3	■	■	■	■	■	■							
150.3	■	■	■	■	■								
200.3	■	■	■	■									
250.3	■	■	■										
300.3	■	■											



[GFSM O/S]: Surface Condition
Thickness: ground or fine milled
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 255 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
1.45	0.1	0.2	0	0	11.0	0.7	0.7
1.6	0.6	0.6	0.03	0.03	13.0	1.0	1.0



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Technical Properties

Secondary-hardening, ledeburitic cold work steel, can be used for a wide range of applications. Low distortion, excellent wear resistance and good toughness. Temper-resistant, even at high hardening temperatures. In addition it can be nitrated without any reduction in hardness despite that it is a cold work steel.
 Working hardness: 57-62 HRC.



Applications

Blanking tools, precision cutting tools, dies, punches, thread rolling dies, broaches, milling cutters, press tools, shear knives, deep drawing dies, cold rollings, measuring tools, woodworking tools, cold pilger mandrels, plastic molds.



AISI D2 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/D2

via smartphone / tablet:



PREMIUM D2 - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 1,000 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS											
	2.2	3.2	4.2	5.2	6.2	8.2	10.3	12.3	15.3	16.3	20.3	
	Available Dimensions [■]											
6.2					■							
8.2						■						
10.3	■	■	■	■	■	■	■					
12.3								■				
15.3	■	■	■	■	■	■	■	■	■			
16.3										■		
20.3	■	■	■	■	■	■	■	■	■	■	■	■
25.3	■	■	■	■	■	■	■	■	■	■	■	■
30.3	■	■	■	■	■	■	■	■	■	■		
32.3	■	■	■	■	■	■	■	■	■	■		
40.3	■	■	■	■	■	■	■	■				
50.3	■	■	■	■	■	■	■					
60.3	■	■	■	■	■	■						
63.3	■	■	■	■	■	■						
70.3	■	■	■	■	■	■						
80.3	■	■	■	■	■							
90.3	■	■	■	■	■							
100.3	■	■	■	■								
125.3	■	■	■									
150.3	■	■										
160.3	■	■										
175.3	■	■										
180.3	■											
200.3	■											



[GFSM O/S]: Surface Condition

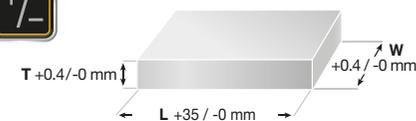
Thickness: ground or fine milled

Width: ground or fine milled

Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 255 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
1.45	0.1	0.2	0	0	11.0	0.7	0.7
1.6	0.6	0.6	0.03	0.03	13.0	1.0	1.0



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.

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Technical Properties

Secondary-hardening, ledeburitic cold work steel, can be used for a wide range of applications. Low distortion, excellent wear resistance and good toughness. Temper-resistant, even at high hardening temperatures. In addition it can be nitrated without any reduction in hardness despite that it is a cold work steel.

Working hardness: 57-62 HRC.



Applications

Blanking tools, precision cutting tools, dies, punches, thread rolling dies, broaches, milling cutters, press tools, shear knives, deep drawing dies, cold rollings, measuring tools, woodworking tools, cold pilger mandrels, plastic molds.



AISI D2 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/D2

via smartphone / tablet:



A2

A8 mod. / Chipper

D2

PREMIUM D2 - HARD FLAT METRIC

TOOL STEEL

Length: 250 mm

METRIC DIMENSIONS in mm

THICKNESS	Available Dimensions [mm]										
	2.2	2.7	3.2	3.7	4.2	4.7	5.2	6.2	7.2	8.2	9.2

WIDTH	Available Dimensions [mm]										
250	■	■	■	■	■	■	■	■	■	■	■



Length: 500 mm

METRIC DIMENSIONS in mm

THICKNESS	Available Dimensions [mm]				
	2.2	2.7	3.2	3.7	4.2

WIDTH	Available Dimensions [mm]				
250	■	■	■	■	■

Hardened dimensions are delivered with approx. 57 HRC, at least double tempered.



Technical Properties

Secondary-hardening, ledeburitic cold work steel, can be used for a wide range of applications. Low distortion, excellent wear resistance and good toughness. Temper-resistant, even at high hardening temperatures. In addition it can be nitrated without any reduction in hardness despite that it is a cold work steel. Working hardness: 57-62 HRC.



Applications

Blanking tools, precision cutting tools, dies, punches, thread rolling dies, broaches, milling cutters, press tools, shear knives, deep drawing dies, cold rollings, measuring tools, woodworking tools, cold pilger mandrels, plastic molds.

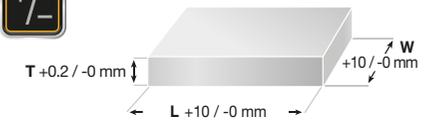


[HardM]: Surface Condition

Thickness: ground or fine milled
Width: saw cut or sheared
Length: saw cut or sheared



Tolerances



Standard values

Delivery condition: maximum 255 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
1.45	0.1	0.2	0	0	11.0	0.7	0.7
1.6	0.6	0.6	0.03	0.03	13.0	1.0	1.0



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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[250 mm] - abrams-steel.com/D2-14
[500 mm] - abrams-steel.com/D2-15



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via smartphone / tablet:



PREMIUM D2 - EDM BLOCK HARDENED

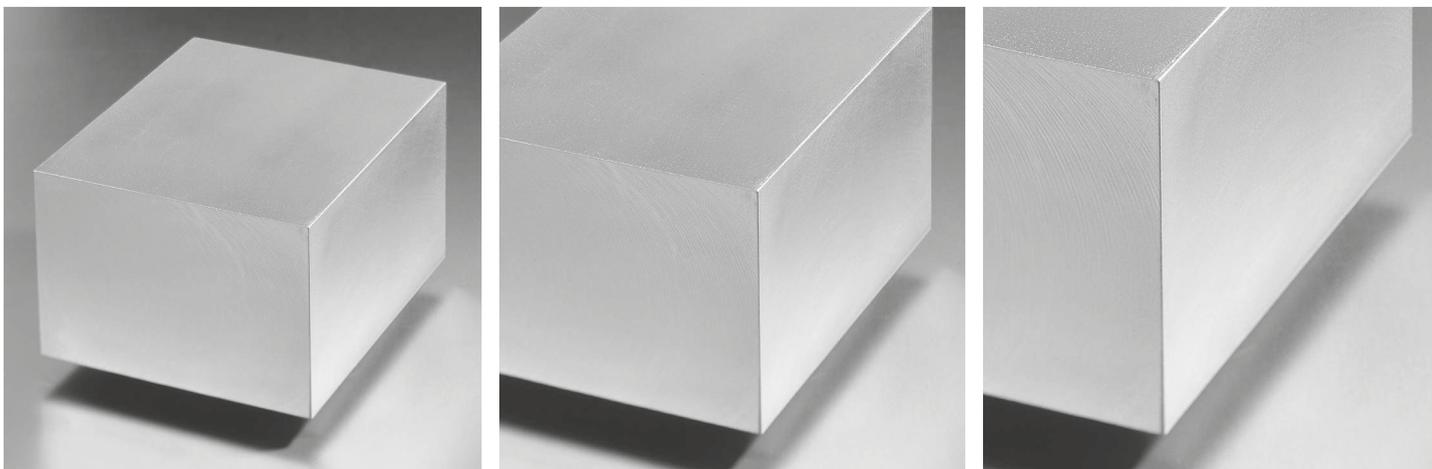
TOOL STEEL

Square: 4-12"

IMPERIAL DIMENSIONS in inch

 SQUARE	THICKNESS				
	1/2"	1"	2"	3"	4"
Available Dimensions [■]					
4"	■	■	■	■	■
8"	■	■	■	■	■
12"	■	■	■	■	■

Hardened erosion blocks are tempered at least three times at approx. 61 HRC.



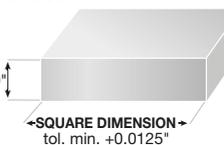
[EDM]: Surface Condition

Thickness: ground or fine milled
 Square dimension: ground or fine milled



Tolerances

T +0.010"/-0.000"



Standard values

Delivery condition: maximum 255 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
1.45	0.1	0.2	0	0	11.0	0.7	0.7
1.6	0.6	0.6	0.03	0.03	13.0	1.0	1.0



Don't see your exact dimension(s)?

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Technical Properties

Secondary-hardening, ledeburitic cold work steel, can be used for a wide range of applications. Low distortion, excellent wear resistance and good toughness. Temper-resistant, even at high hardening temperatures. In addition it can be nitrated without any reduction in hardness despite that it is a cold work steel.
 Working hardness: 57-62 HRC.



Applications

Blanking tools, precision cutting tools, dies, punches, thread rolling dies, broaches, milling cutters, press tools, shear knives, deep drawing dies, cold rollings, measuring tools, woodworking tools, cold pilger mandrels, plastic molds.



AISI D2 – all at a glance!

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via smartphone/tablet:



A2

A8 mod. /
 Chipper

D2

PREMIUM D2 - DRILL ROD

TOOL STEEL

Length: **36"**

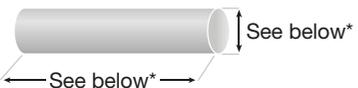
IMPERIAL DIAMETERS in inch

Available Diameters [●]	
1/8"	●
3/16"	●
1/4"	●
5/16"	●
3/8"	●
7/16"	●
1/2"	●
5/8"	●
3/4"	●
7/8"	●
1"	●



[DR]: Surface Condition
Turned, ground & polished (TGP)



Tolerances
 See below*



Standard values
Delivery condition: maximum 255 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
1.45	0.1	0.2	0	0	11.0	0.7	0.7
1.6	0.6	0.6	0.03	0.03	13.0	1.0	1.0



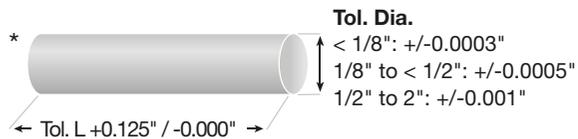
Don't see your exact dimension(s)?
Any diameter is available in different lengths (e.g. round blanks).
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- according to your requirements.



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Technical Properties

Secondary-hardening, ledeburitic cold work steel, can be used for a wide range of applications. Low distortion, excellent wear resistance and good toughness. Temper-resistant, even at high hardening temperatures. In addition it can be nitrated without any reduction in hardness despite that it is a cold work steel.
Working hardness: 57-62 HRC.



Applications

Blanking tools, precision cutting tools, dies, punches, thread rolling dies, broaches, milling cutters, press tools, shear knives, deep drawing dies, cold rollings, measuring tools, woodworking tools, cold pilger mandrels, plastic molds.



AISI D2 – all at a glance!

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via smartphone / tablet:



PREMIUM D2 - DRILL MOD METRIC

TOOL STEEL

Length: **914 mm (36")**

METRIC DIAMETERS in mm

Available Diameters [●]	
3.0	●
4.0	●
5.0	●
6.0	●
8.0	●
10.0	●
12.0	●
15.0	●
16.0	●
20.0	●
25.0	●

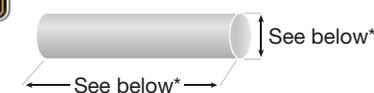


[DRM]: Surface Condition

Turned, ground & polished (TGP) - ISO h9



Tolerances



Standard values

Delivery condition: maximum 255 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
1.45	0.1	0.2	0	0	11.0	0.7	0.7
1.6	0.6	0.6	0.03	0.03	13.0	1.0	1.0



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
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Technical Properties

Secondary-hardening, ledeburitic cold work steel, can be used for a wide range of applications. Low distortion, excellent wear resistance and good toughness. Temper-resistant, even at high hardening temperatures. In addition it can be nitrated without any reduction in hardness despite that it is a cold work steel.
Working hardness: 57-62 HRC.



Applications

Blanking tools, precision cutting tools, dies, punches, thread rolling dies, broaches, milling cutters, press tools, shear knives, deep drawing dies, cold rollings, measuring tools, woodworking tools, cold pilger mandrels, plastic molds.



AISI D2 – all at a glance!

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A2

A8 mod. /
Chipper

D2



WATCH THE MAKING OF THE
2ND MOTIF FOR CALENDAR
2013 / 2016



ABRAMS PREMIUM DECARB FREE ROUNDS - PEELED OR ROUGH-TURNED!

ABRAMS!
PREMIUM STEEL

PREMIUM D2 - DECARB FREE ROUNDS

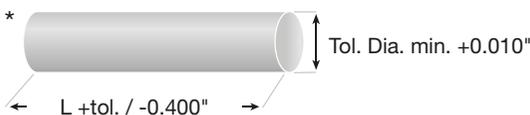
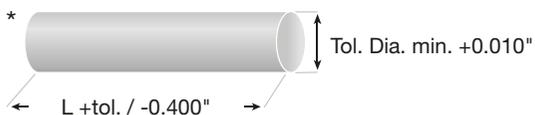
TOOL STEEL

Length: 18"

Length: 36" IMPERIAL DIAMETERS in inch

Available Diameters [●]	
1/4"	●
1/2"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

Available Diameters [●]	
1/4"	●
1/2"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



Technical Properties

Secondary-hardening, ledeburitic cold work steel, can be used for a wide range of applications. Low distortion, excellent wear resistance and good toughness. Temper-resistant, even at high hardening temperatures. In addition it can be nitrated without any reduction in hardness despite that it is a cold work steel. Working hardness: 57-62 HRC.



Applications

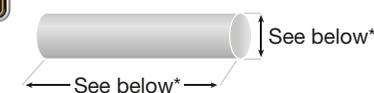
Blanking tools, precision cutting tools, dies, punches, thread rolling dies, broaches, milling cutters, press tools, shear knives, deep drawing dies, cold rollings, measuring tools, woodworking tools, cold pilger mandrels, plastic molds.



[DCF]: Surface Condition
Peeled or rough-turned



Tolerances



Standard values

Delivery condition: maximum 255 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
1.45	0.1	0.2	0	0	11.0	0.7	0.7
1.6	0.6	0.6	0.03	0.03	13.0	1.0	1.0



Don't see your exact dimension(s)?

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[18"] - abrams-steel.com/D2-22
[36"] - abrams-steel.com/D2-23



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via smartphone/tablet:



A2

A8 mod. /
Chipper

D2

PREMIUM H10 - \$mart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

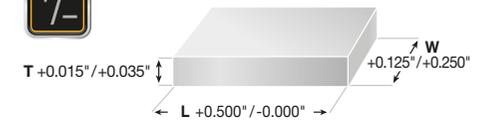
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.28	0.1	0.15	0	0	2.7	2.5	0.4
0.35	0.4	0.45	0.03	0.02	3.2	3.0	0.7



Don't see your exact dimension(s)?

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Technical Properties

Hot work steel with high toughness, heat resistance and tempering resistance. Air-hardening steel grade with good thermal conductivity. Can be water cooled.
 Working hardness: 50-52 HRC.



Applications

Extrusion presses, brass casting, press tools, die inserts, die casting molds, plastic molds, recipient bushes, pressure dies, press mandrels, tube extrusion mandrels, piecer plugs, press dies, block receivers, screw production, nut production, rivet production, bolts production, hot shear knives.



AISI H10 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
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via smartphone / tablet:



PREMIUM H10 - \$smart FLAT STOCK

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

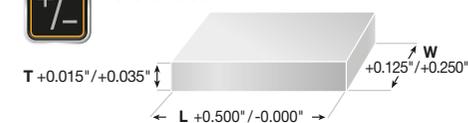
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.28	0.1	0.15	0	0	2.7	2.5	0.4
0.35	0.4	0.45	0.03	0.02	3.2	3.0	0.7



Don't see your exact dimension(s)?

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Technical Properties

Hot work steel with high toughness, heat resistance and tempering resistance. Air-hardening steel grade with good thermal conductivity. Can be water cooled.
 Working hardness: 50-52 HRC.



Applications

Extrusion presses, brass casting, press tools, die inserts, die casting molds, plastic molds, recipient bushes, pressure dies, press mandrels, tube extrusion mandrels, piecer plugs, press dies, block receivers, screw production, nut production, rivet production, bolts production, hot shear knives.



AISI H10 – all at a glance!

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A2

A8 mod. /
 Chipper

D2

H10

PREMIUM H10 - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

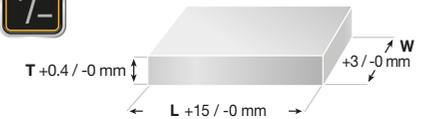
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.28	0.1	0.15	0	0	2.7	2.5	0.4
0.35	0.4	0.45	0.03	0.02	3.2	3.0	0.7



Don't see your exact dimension(s)?

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Technical Properties

Hot work steel with high toughness, heat resistance and tempering resistance. Air-hardening steel grade with good thermal conductivity. Can be water cooled.
 Working hardness: 50-52 HRC.



Applications

Extrusion presses, brass casting, press tools, die inserts, die casting molds, plastic molds, recipient bushes, pressure dies, press mandrels, tube extrusion mandrels, piecer plugs, press dies, block receivers, screw production, nut production, rivet production, bolts production, hot shear knives.



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via smartphone / tablet:



PREMIUM H10 - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

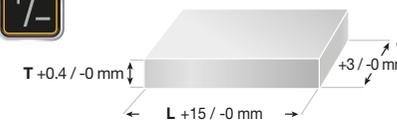
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.28	0.1	0.15	0	0	2.7	2.5	0.4
0.35	0.4	0.45	0.03	0.02	3.2	3.0	0.7



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Technical Properties

Hot work steel with high toughness, heat resistance and tempering resistance. Air-hardening steel grade with good thermal conductivity. Can be water cooled.

Working hardness: 50-52 HRC.



Applications

Extrusion presses, brass casting, press tools, die inserts, die casting molds, plastic molds, recipient bushes, pressure dies, press mandrels, tube extrusion mandrels, piecer plugs, press dies, block receivers, screw production, nut production, rivet production, bolts production, hot shear knives.



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via smartphone / tablet:



A2

A8 mod. / Chipper

D2

H10

PREMIUM H13 - \$mart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

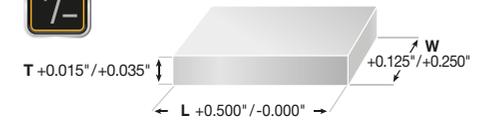
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.35	0.8	0.25	0	0	4.8	1.2	0.85
0.42	1.2	0.5	0.03	0.02	5.5	1.5	1.15



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Technical Properties

Hot work steel with excellent heat resistance and high wear resistance. Good toughness and thermal conductivity. Can be water cooled and is resistant to thermal shock. Working hardness: 50-56 HRC.



Applications

Forging tools and dies, hot shear knives, hot extrusion tools, extrusion press tools, press tools, block receivers, die casting tools, light metal die casting, press mandrels, press dies, piecer plugs, screw production, rivet production, bolts production, ejectors, plastic molds.



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via smartphone / tablet:



PREMIUM H13 - \$mart FLAT STOCK

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

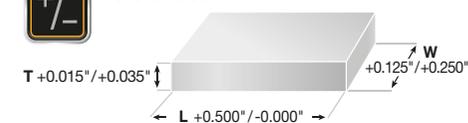
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.35	0.8	0.25	0	0	4.8	1.2	0.85
0.42	1.2	0.5	0.03	0.02	5.5	1.5	1.15



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Technical Properties

Hot work steel with excellent heat resistance and high wear resistance. Good toughness and thermal conductivity. Can be water cooled and is resistant to thermal shock.
 Working hardness: 50-56 HRC.



Applications

Forging tools and dies, hot shear knives, hot extrusion tools, extrusion press tools, press tools, block receivers, die casting tools, light metal die casting, press mandrels, press dies, piecer plugs, screw production, rivet production, bolts production, ejectors, plastic molds.



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A2

A8 mod. /
 Chipper

D2

H10

H13

PREMIUM H13 - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: 300 mm

METRIC DIMENSIONS in mm

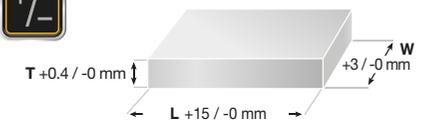
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.35	0.8	0.25	0	0	4.8	1.2	0.85
0.42	1.2	0.5	0.03	0.02	5.5	1.5	1.15



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Technical Properties

Hot work steel with excellent heat resistance and high wear resistance. Good toughness and thermal conductivity. Can be water cooled and is resistant to thermal shock. Working hardness: 50-56 HRC.



Applications

Forging tools and dies, hot shear knives, hot extrusion tools, extrusion press tools, press tools, block receivers, die casting tools, light metal die casting, press mandrels, press dies, piercer plugs, screw production, rivet production, bolts production, ejectors, plastic molds.



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via smartphone / tablet:



PREMIUM H13 - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

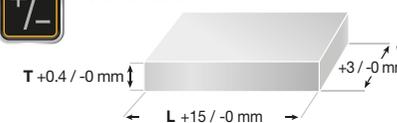
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.35	0.8	0.25	0	0	4.8	1.2	0.85
0.42	1.2	0.5	0.03	0.02	5.5	1.5	1.15



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Technical Properties

Hot work steel with excellent heat resistance and high wear resistance. Good toughness and thermal conductivity. Can be water cooled and is resistant to thermal shock.
 Working hardness: 50-56 HRC.



Applications

Forging tools and dies, hot shear knives, hot extrusion tools, extrusion press tools, press tools, block receivers, die casting tools, light metal die casting, press mandrels, press dies, piecer plugs, screw production, rivet production, bolts production, ejectors, plastic molds.



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A2

A8 mod. /
 Chipper

D2

H10

H13



ABRAMS PREMIUM DECARB FREE ROUNDS - PEELED OR ROUGH-TURNED!

ABRAMS!
PREMIUM STEEL

PREMIUM H13 - DECARB FREE ROUNDS

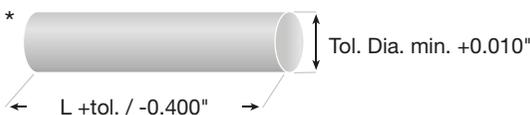
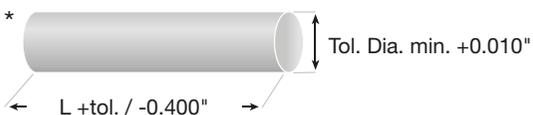
TOOL STEEL

Length: 18"

Length: 36" IMPERIAL DIAMETERS in inch

Available Diameters [●]	
1/4"	●
1/2"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

Available Diameters [●]	
1/4"	●
1/2"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



Technical Properties

Hot work steel with excellent heat resistance and high wear resistance. Good toughness and thermal conductivity. Can be water cooled and is resistant to thermal shock. Working hardness: 50-56 HRC.



Applications

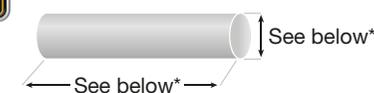
Forging tools and dies, hot shear knives, hot extrusion tools, extrusion press tools, press tools, block receivers, die casting tools, light metal die casting, press mandrels, press dies, piecer plugs, screw production, rivet production, bolts production, ejectors, plastic molds.



[DCF]: Surface Condition
Peeled or rough-turned



Tolerances



Standard values

Delivery condition: maximum 229 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.35	0.8	0.25	0	0	4.8	1.2	0.85
0.42	1.2	0.5	0.03	0.02	5.5	1.5	1.15



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
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- according to your requirements.



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Direct access to our online shop

[18"] - abrams-steel.com/H13-22
[36"] - abrams-steel.com/H13-23



AISI H13 – all at a glance!

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abrams-steel.com/H13

via smartphone / tablet:



A2

A8 mod. /
Chipper

D2

H10

H13

PREMIUM H13 ESR - \$mart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

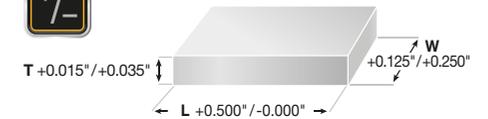
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.35	0.8	0.25	0	0	4.8	1.2	0.85
0.42	1.2	0.5	0.03	0.02	5.5	1.5	1.15



Don't see your exact dimension(s)?

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Technical Properties

Hot work steel with excellent heat resistance and high wear resistance. Good toughness and thermal conductivity. Can be water cooled and is resistant to thermal shock. The ESR (Electro Slag Remelted) steel production guarantees pureness and homogeneity, as well as improved toughness.
 Working hardness: 50-56 HRC.



Applications

Forging tools and dies, hot shear knives, hot extrusion tools, extrusion press tools, press tools, block receivers, die casting tools, light metal die casting, press mandrels, press dies, piecer plugs, screw production, rivet production, bolts production, ejectors, plastic molds.



AISI H13 ESR – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/H13ESR

via smartphone / tablet:



PREMIUM H13 ESR - \$smart FLAT STOCK

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

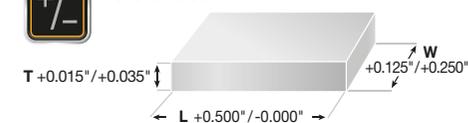
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.35	0.8	0.25	0	0	4.8	1.2	0.85
0.42	1.2	0.5	0.03	0.02	5.5	1.5	1.15



Don't see your exact dimension(s)?

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Technical Properties

Hot work steel with excellent heat resistance and high wear resistance. Good toughness and thermal conductivity. Can be water cooled and is resistant to thermal shock. The ESR (Electro Slag Remelted) steel production guarantees pureness and homogeneity, as well as improved toughness.
 Working hardness: 50-56 HRC.



Applications

Forging tools and dies, hot shear knives, hot extrusion tools, extrusion press tools, press tools, block receivers, die casting tools, light metal die casting, press mandrels, press dies, piecer plugs, screw production, rivet production, bolts production, ejectors, plastic molds.



AISI H13 ESR – all at a glance!

Datasheets, online shop,
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via smartphone / tablet:



A2

A8 mod. /
 Chipper

D2

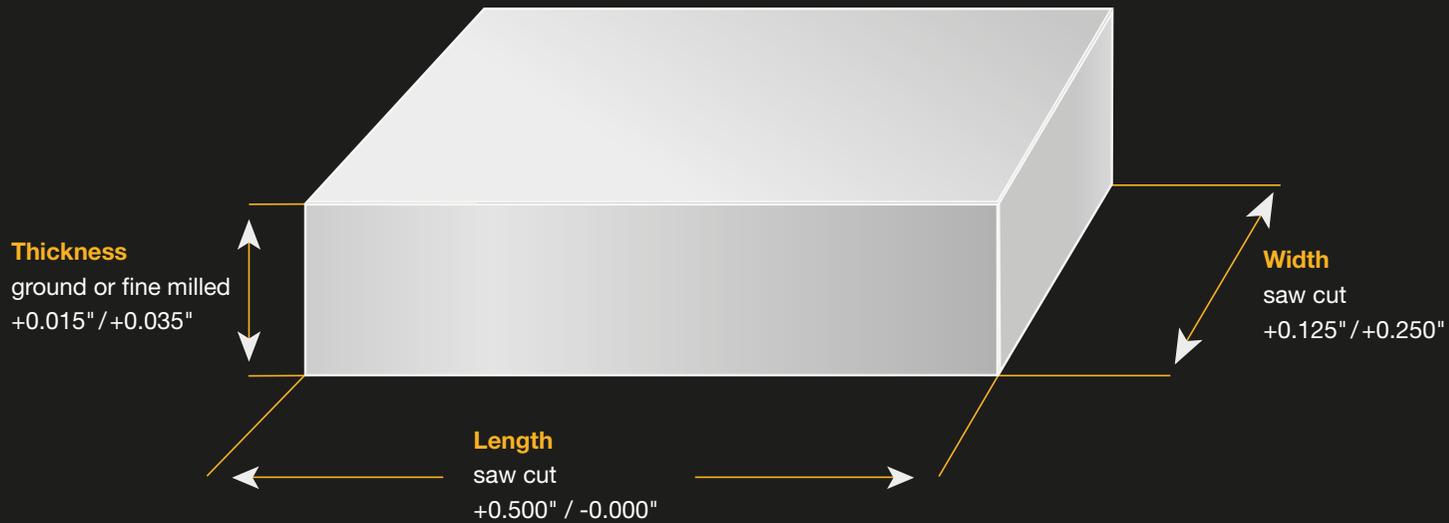
H10

H13

H13 ESR

Smart Flat Stock: SAVES YOU TIME - SAVES YOU MONEY

Always close to your final dimensions.

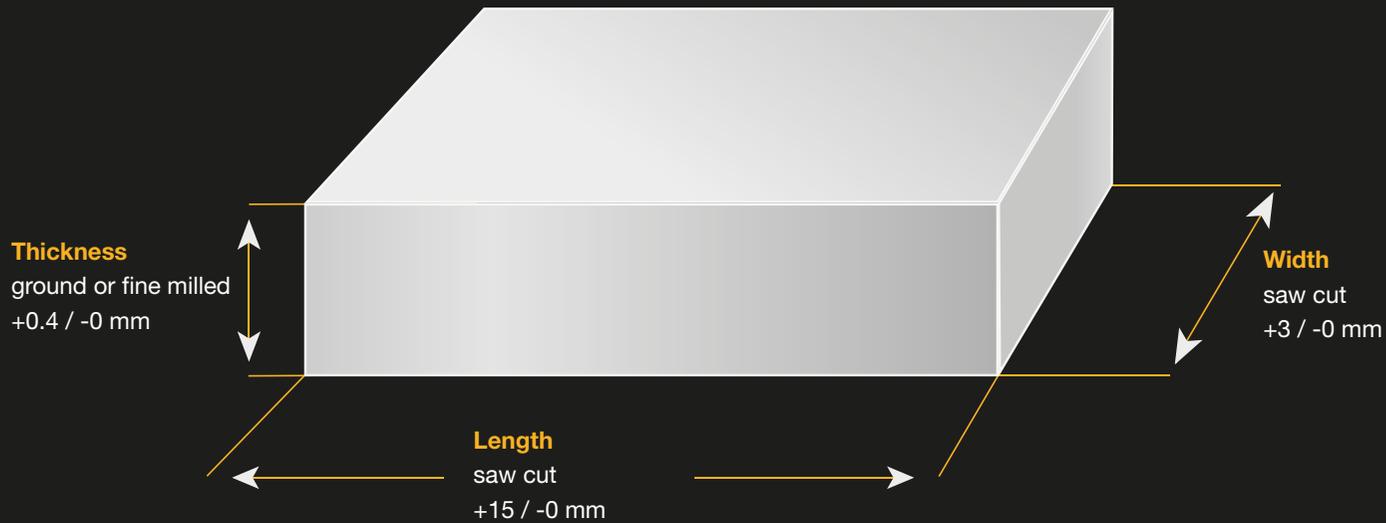


NEW TO THE AMERICAN MARKET !

METRIC

Smart Flat Stock: \$AVES YOU TIME - \$AVES YOU MONEY

Always close to your final dimensions.



A2

A8 mod. /
Chipper

D2

H10

H13

H13 ESR

ABRAMS - SAVES TIME AND MONEY!

ABRAMS!
PREMIUM STEEL

PREMIUM H13 ESR - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

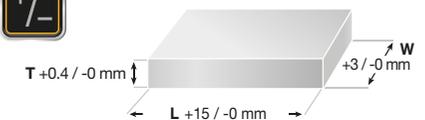
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.35	0.8	0.25	0	0	4.8	1.2	0.85
0.42	1.2	0.5	0.03	0.02	5.5	1.5	1.15



Don't see your exact dimension(s)?

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Technical Properties

Hot work steel with excellent heat resistance and high wear resistance. Good toughness and thermal conductivity. Can be water cooled and is resistant to thermal shock. The ESR (Electro Slag Remelted) steel production guarantees pureness and homogeneity, as well as improved toughness.
 Working hardness: 50-56 HRC.



Applications

Forging tools and dies, hot shear knives, hot extrusion tools, extrusion press tools, press tools, block receivers, die casting tools, light metal die casting, press mandrels, press dies, piercer plugs, screw production, rivet production, bolts production, ejectors, plastic molds.



AISI H13 ESR – all at a glance!

Datasheets, online shop,
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via smartphone / tablet:



PREMIUM H13 ESR - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

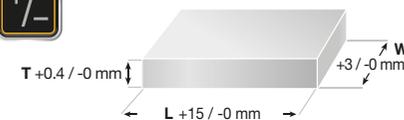
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.35	0.8	0.25	0	0	4.8	1.2	0.85
0.42	1.2	0.5	0.03	0.02	5.5	1.5	1.15



Don't see your exact dimension(s)?

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Technical Properties

Hot work steel with excellent heat resistance and high wear resistance. Good toughness and thermal conductivity. Can be water cooled and is resistant to thermal shock. The ESR (Electro Slag Remelted) steel production guarantees pureness and homogeneity, as well as improved toughness.

Working hardness: 50-56 HRC.



Applications

Forging tools and dies, hot shear knives, hot extrusion tools, extrusion press tools, press tools, block receivers, die casting tools, light metal die casting, press mandrels, press dies, piecer plugs, screw production, rivet production, bolts production, ejectors, plastic molds.



AISI H13 ESR – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/H13ESR

via smartphone / tablet:



A2

A8 mod. / Chipper

D2

H10

H13

H13 ESR

PREMIUM L3 - \$smart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

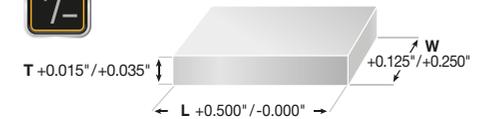
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 223 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.95	0.15	0.2	0	0	1.35	0	0
1.1	0.35	0.4	0.025	0.025	1.6	0.1	0.4



Don't see your exact dimension(s)?

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Direct access to our online shop

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Technical Properties

An all-purpose medium alloyed cold work tool steel with high hardenability, but low depth of hardening, good wear resistance and toughness. This steel grade belongs to the group of AISI L1 (roller bearing and ball bearing steel).
 Working hardness: 60-64 HRC.



Applications

Drills, threading tools, centre lathes, milling cutters, reamers, small die plates, pressure rollers, cold rollings, measuring tools, cold pilger rollings, cold pilger jaws, gauges, mandrels, woodworking tools, cold extrusion tools, flanging rollers, shear knives, roller bearings, ball bearings (medium to large size).



AISI L3 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/L3

via smartphone / tablet:



PREMIUM L3 - \$smart FLAT STOCK

TOOL STEEL

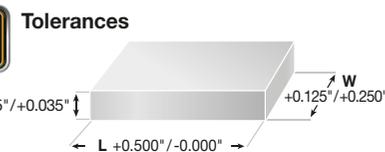
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 223 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.95	0.15	0.2	0	0	1.35	0	0
1.1	0.35	0.4	0.025	0.025	1.6	0.1	0.4



Don't see your exact dimension(s)?
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Technical Properties
 An all-purpose medium alloyed cold work tool steel with high hardenability, but low depth of hardening, good wear resistance and toughness. This steel grade belongs to the group of AISI L1 (roller bearing and ball bearing steel). Working hardness: 60-64 HRC.



Applications
 Drills, threading tools, centre lathes, milling cutters, reamers, small die plates, pressure rollers, cold rollings, measuring tools, cold pilger rollings, cold pilger jaws, gauges, mandrels, woodworking tools, cold extrusion tools, flanging rollers, shear knives, roller bearings, ball bearings (medium to large size).

A2
 A8 mod. / Chipper
 D2
 H10
 H13
 H13 ESR
L3



AISI L3 – all at a glance!
 Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/L3

via smartphone / tablet:

PREMIUM L3 - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

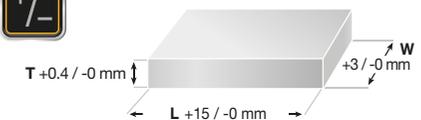
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 223 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.95	0.15	0.2	0	0	1.35	0	0
1.1	0.35	0.4	0.025	0.025	1.6	0.1	0.4



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Technical Properties

An all-purpose medium alloyed cold work tool steel with high hardenability, but low depth of hardening, good wear resistance and toughness. This steel grade belongs to the group of AISI L1 (roller bearing and ball bearing steel). Working hardness: 60-64 HRC.



Applications

Drills, threading tools, centre lathes, milling cutters, reamers, small die plates, pressure rollers, cold rollings, measuring tools, cold pilger rollings, cold pilger jaws, gauges, mandrels, woodworking tools, cold extrusion tools, flanging rollers, shear knives, roller bearings, ball bearings (medium to large size).



AISI L3 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/L3

via smartphone / tablet:



PREMIUM L3 - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

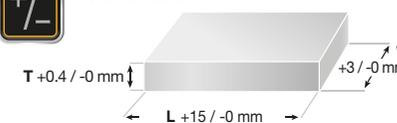
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 223 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.95	0.15	0.2	0	0	1.35	0	0
1.1	0.35	0.4	0.025	0.025	1.6	0.1	0.4



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Technical Properties

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 Working hardness: 60-64 HRC.



Applications

Drills, threading tools, centre lathes, milling cutters, reamers, small die plates, pressure rollers, cold rollings, measuring tools, cold pilger rollings, cold pilger jaws, gauges, mandrels, woodworking tools, cold extrusion tools, flanging rollers, shear knives, roller bearings, ball bearings (medium to large size).

A2

A8 mod. / Chipper

D2

H10

H13

H13 ESR

L3

! AISI L3 – all at a glance!
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/L3

via smartphone / tablet:



WATCH THE MAKING OF THE 12TH MOTIF FOR CALENDAR 2016 / 2019



A2

A8 mod. /
Chipper

D2

H10

H13

H13 ESR

L3

ENJOYING VARIETY!

ABRAMS
PREMIUM STEEL

PREMIUM L6 - \$smart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

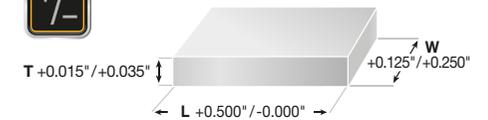
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.5	0.1	0.6	0	0	0.8	0.35	1.5	0.05
0.6	0.4	0.9	0.03	0.03	1.2	0.55	1.8	0.15



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Technical Properties

Hot work steel that can be used for a wide range of applications. With good through-hardening, tempering resistance, toughness, pressure and heat resistance. Delivery condition: annealed. Working hardness: approx. 40-54 HRC.



Applications

Forging dies, slides, punch heads, extruding stamps, press tools, hot shear knives, extrusion press tools, die holders, support tools, tool holders, pressure plates, armored die plates.



AISI L6 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/L6

via smartphone / tablet:



PREMIUM L6 - \$smart FLAT STOCK

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

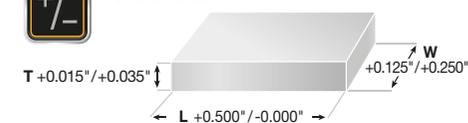
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.5	0.1	0.6	0	0	0.8	0.35	1.5	0.05
0.6	0.4	0.9	0.03	0.03	1.2	0.55	1.8	0.15



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Technical Properties

Hot work steel that can be used for a wide range of applications. With good through-hardening, tempering resistance, toughness, pressure and heat resistance. Delivery condition: annealed. Working hardness: approx. 40-54 HRC.



Applications

Forging dies, slides, punch heads, extruding stamps, press tools, hot shear knives, extrusion press tools, die holders, support tools, tool holders, pressure plates, armored die plates.



AISI L6 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/L6

via smartphone / tablet:



PREMIUM L6 - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

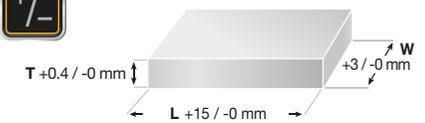
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.5	0.1	0.6	0	0	0.8	0.35	1.5	0.05
0.6	0.4	0.9	0.03	0.03	1.2	0.55	1.8	0.15



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Technical Properties

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Applications

Forging dies, slides, punch heads, extruding stamps, press tools, hot shear knives, extrusion press tools, die holders, support tools, tool holders, pressure plates, armored die plates.



AISI L6 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/L6

via smartphone / tablet:



PREMIUM L6 - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

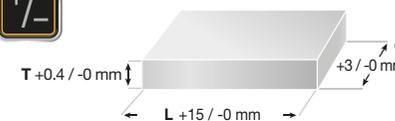
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.5	0.1	0.6	0	0	0.8	0.35	1.5	0.05
0.6	0.4	0.9	0.03	0.03	1.2	0.55	1.8	0.15



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Hot work steel that can be used for a wide range of applications. With good through-hardening, tempering resistance, toughness, pressure and heat resistance. Delivery condition: annealed. Working hardness: approx. 40-54 HRC.



Applications

Forging dies, slides, punch heads, extruding stamps, press tools, hot shear knives, extrusion press tools, die holders, support tools, tool holders, pressure plates, armored die plates.



AISI L6 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/L6

via smartphone / tablet:





WATCH THE MAKING OF THE
3RD MOTIF FOR CALENDAR
2019 / 2022



ABRAMS PREMIUM DECARB FREE ROUNDS - PEELED OR ROUGH-TURNED!

ABRAMS!
PREMIUM STEEL!

PREMIUM L6 - DECARB FREE ROUNDS

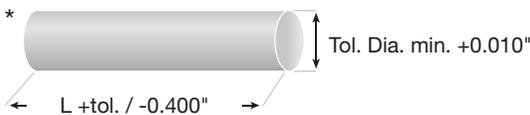
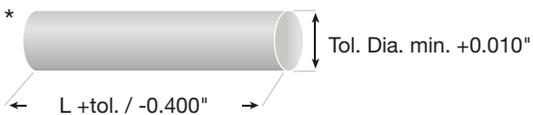
TOOL STEEL

Length: **18"**

Length: **36"** **IMPERIAL DIAMETERS in inch**

Available Diameters [●]	
1/2"	●
3/4"	●
1"	●
1-1/4"	●
1-1/2"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

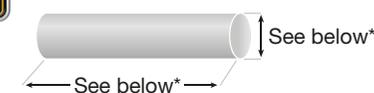
Available Diameters [●]	
1/2"	●
3/4"	●
1"	●
1-1/4"	●
1-1/2"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



[DCF]: Surface Condition
Peeled or rough-turned



Tolerances



Standard values

Delivery condition: maximum 250 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.5	0.1	0.6	0	0	0.8	0.35	1.5	0.05
0.6	0.4	0.9	0.03	0.03	1.2	0.55	1.8	0.15



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
Custom orders on request
- according to your requirements.



Contact us

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Direct access to our online shop

[18"] - abrams-steel.com/L6-22
[36"] - abrams-steel.com/L6-23



Technical Properties

Hot work steel that can be used for a wide range of applications. With good through-hardening, tempering resistance, toughness, pressure and heat resistance. Delivery condition: annealed. Working hardness: approx. 40-54 HRC.



Applications

Forging dies, slides, punch heads, extruding stamps, press tools, hot shear knives, extrusion press tools, die holders, support tools, tool holders, pressure plates, armored die plates.



AISI L6 – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/L6

via smartphone / tablet:



A2

A8 mod. /
Chipper

D2

H10

H13

H13 ESR

L3

L6

PREMIUM O1 - PRECISION GROUND FLAT STOCK, REGULAR

TOOL STEEL

Length: 18"

IMPERIAL DIMENSIONS in inch

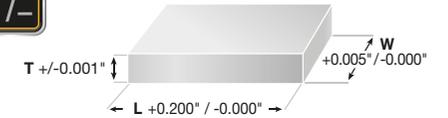
WIDTH	THICKNESS																												
	1/32	3/64	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	9/32	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2	2	2-1/2		
1/8							■																						
5/32																													
3/16																													
7/32																													
1/4																													
9/32																													
5/16																													
3/8																													
7/16																													
1/2																													
9/16																													
5/8																													
3/4																													
7/8																													
1																													
1 1/8																													
1-1/4																													
1-1/2																													
1-3/4																													
2																													
2-1/2																													
3																													
3 1/2																													
4																													
4-1/2																													
5																													
5-1/2																													
6																													
7																													
8																													
10																													
12																													
14																													



[GFS reg]: Surface Condition
Thickness: ground
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
 Custom orders on request
 - according to your requirements!



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abrams-steel.com/O1-1



Technical Properties

Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness.
 Working hardness: 57-62 HRC.



Applications

Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calibers, guide rails, dies, punches, woodworking tools, machine knives.



AISI O1 - all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/O1

via smartphone / tablet:



PREMIUM O1 - PRECISION GROUND FLAT STOCK, REGULAR

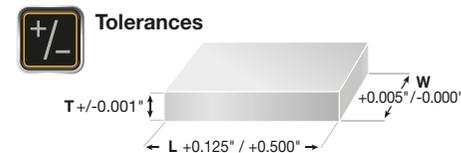
TOOL STEEL

Length: 36"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS																											
	1/32	3/64	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	9/32	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2	2	2-1/2	
1/8							■																					
5/32																												
3/16																												
7/32																												
1/4			■		■		■		■		■		■		■		■		■		■		■		■		■	
9/32																												
5/16																												
3/8			■		■		■		■		■		■		■		■		■		■		■		■		■	
7/16																												
1/2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9/16																												
5/8			■		■		■		■		■		■		■		■		■		■		■		■		■	
3/4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7/8																												
1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1 1/8																												
1-1/4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-3/4																												
2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3 1/2																												
4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2																												
5			■		■		■		■		■		■		■		■		■		■		■		■		■	
5-1/2																												
6	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7																												
8			■		■		■		■		■		■		■		■		■		■		■		■		■	
10			■		■		■		■		■		■		■		■		■		■		■		■		■	
12																												
14																												

[GFS reg]: Surface Condition
 Thickness: ground
 Width: ground or fine milled
 Length: milled or saw cut



Standard values
 Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7

Don't see your exact dimension(s)?
 Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!

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 sales@abrams-industries.com

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 abrams-steel.com/O1-2

Technical Properties
 Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness. Working hardness: 57-62 HRC.

Applications
 Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calibers, guide rails, dies, punches, woodworking tools, machine knives.

AISI O1 – all at a glance!
 Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/O1

via smartphone / tablet:



A2
 A8 mod. / Chipper
 D2
 H10
 H13
 H13 ESR
 L3
 L6
 O1

PREMIUM O1 - PRECISION GROUND FLAT STOCK, OVERSIZE

TOOL STEEL

Length: 18"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS								
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
Available Dimensions [■]									
3/16"		■							
1/4"			■						
5/16"				■					
3/8"					■				
1/2"	■	■	■	■	■	■			
5/8"							■		
3/4"	■	■	■	■	■	■	■	■	
1"	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■
1-3/4"		■	■	■	■	■	■		
2"	■	■	■	■	■	■	■	■	■
2 1/2"	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■
3-1/2"			■	■	■				
4"	■	■	■	■	■	■	■	■	■
5"			■	■	■	■			
6"		■	■	■	■	■	■	■	■
8"			■		■				

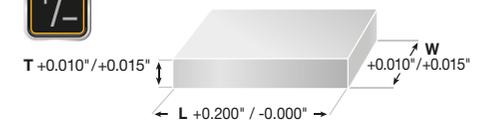


[GFS O/S]: Surface Condition

Thickness: ground
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7



Don't see your exact dimension(s)?

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Technical Properties

Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness. Working hardness: 57-62 HRC.



Applications

Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calibers, guide rails, dies, punches, woodworking tools, machine knives.



AISI O1 - all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/O1

via smartphone / tablet:



PREMIUM O1 - PRECISION GROUND FLAT STOCK, OVERSIZE

TOOL STEEL

Length: 36"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS									
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	
	Available Dimensions [■]									
3/16"		■								
1/4"			■							
5/16"				■						
3/8"					■					
1/2"	■	■	■	■	■	■				
5/8"						■	■			
3/4"	■	■	■	■	■	■	■	■		
1"	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■
1-3/4"		■	■	■	■	■	■	■		
2"	■	■	■	■	■	■	■	■	■	■
2 1/2"	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■
3-1/2"			■	■	■					
4"	■	■	■	■	■	■	■	■	■	■
5"			■	■	■	■				
6"		■	■	■	■	■	■	■	■	■
8"			■		■					

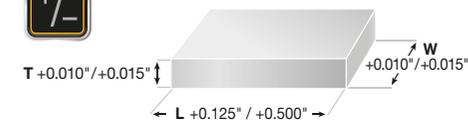


[GFS O/S]: Surface Condition

Thickness: ground
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Direct access to our online shop

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Technical Properties

Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness. Working hardness: 57-62 HRC.



Applications

Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calibers, guide rails, dies, punches, woodworking tools, machine knives.



AISI O1 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/O1

via smartphone / tablet:



A2

A8 mod. / Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

PREMIUM O1 - PRECISION GROUND FLAT STOCK METRIC, REGULAR

TOOL STEEL

Length: 500 mm

METRIC DIMENSIONS in mm

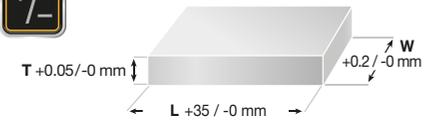
WIDTH	THICKNESS															
	1	1.5	2	3	4	5	6	8	10	12	15	16	18	20	25	30
Available Dimensions [■]																
4					■											
5						■										
6							■									
8								■								
10	■	■	■	■	■	■	■	■	■							
12	■	■	■	■	■	■	■	■	■	■						
15	■	■	■	■	■	■	■	■	■	■	■					
16												■				
18													■			
20	■	■	■	■	■	■	■	■	■	■	■			■		
25	■	■	■	■	■	■	■	■	■	■	■			■	■	
30	■	■	■	■	■	■	■	■	■	■	■			■		■
35	■	■	■	■	■	■	■	■	■	■	■			■	■	■
40	■	■	■	■	■	■	■	■	■	■	■			■	■	■
50	■	■	■	■	■	■	■	■	■	■	■			■		
60	■	■	■	■	■	■	■	■	■	■	■			■		
70	■	■	■	■	■	■	■	■	■	■	■					
80	■	■	■	■	■	■	■	■	■	■	■					
100	■	■	■	■	■	■	■	■	■	■	■					
120	■	■	■	■	■	■	■	■	■	■	■					
125	■	■	■	■	■	■	■	■	■	■	■					
150	■	■	■	■	■	■	■	■	■	■	■					
160	■	■	■	■	■	■	■	■	■	■	■					
180	■	■	■	■	■	■	■	■	■	■	■					
200	■	■	■	■	■	■	■	■	■	■	■					
250	■	■	■	■	■	■	■	■	■	■	■					
300	■	■	■	■	■	■	■	■	■	■	■					



[GFSM reg]: Surface Condition
Thickness: ground or fine milled
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Direct access to our online shop

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Precision Ground Flat Stock Metric, regular acc. to DIN 59350



Technical Properties

Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness. Working hardness: 57-62 HRC.



Applications

Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calibers, guide rails, dies, punches, woodworking tools, machine knives.



AISI O1 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/O1

via smartphone / tablet:



PREMIUM O1 - PRECISION GROUND FLAT STOCK METRIC, REGULAR

TOOL STEEL

Length: 1,000 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS											
	2	3	4	5	6	8	10	12	15	16	18	20
Available Dimensions [■]												
4			■									
5				■								
6					■							
8						■						
10	■	■	■	■	■	■	■					
12	■	■	■	■	■	■	■	■				
15	■	■	■	■	■	■	■	■	■			
16										■		
18											■	
20	■	■	■	■	■	■	■	■	■			■
25	■	■	■	■	■	■	■	■	■			■
30	■	■	■	■	■	■	■	■	■			■
35	■	■	■	■	■	■	■	■	■			
40	■	■	■	■	■	■	■	■	■			
50	■	■	■	■	■	■	■	■				
60	■	■	■	■	■	■	■					
70	■	■	■	■	■	■						
80	■	■	■	■	■							
100	■	■	■	■	■							
120	■	■	■	■								
125	■	■	■									
150	■	■	■									
160	■	■										
180	■	■										
200	■	■										
250	■											
300	■											



[GFSM reg]: Surface Condition

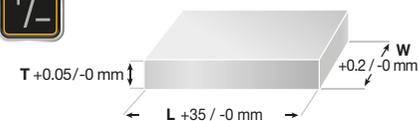
Thickness: ground or fine milled

Width: ground or fine milled

Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.

Custom orders on request

- according to your requirements!



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Direct access to our online shop

abrams-steel.com/O1-7

Precision Ground Flat Stock Metric, regular acc. to DIN 59350



Technical Properties

Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness. Working hardness: 57-62 HRC.



Applications

Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calibers, guide rails, dies, punches, woodworking tools, machine knives.



AISI O1 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/O1

via smartphone/tablet:



A2

A8 mod. / Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

PREMIUM O1 - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 500 mm

METRIC DIMENSIONS in mm

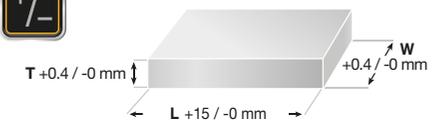
WIDTH	THICKNESS														
	2.2	3.2	4.2	5.2	6.2	8.2	10.3	12.3	15.3	16.3	18.3	20.3	25.3	30.3	32.3
	Available Dimensions [■]														
8.2						■									
10.3	■		■		■	■									
12.3	■		■		■	■	■								
15.3	■		■		■	■	■	■							
16.3										■					
18.3											■				
20.3	■		■		■	■	■	■	■	■			■		
25.3	■		■		■	■	■	■	■	■			■	■	
30.3	■		■		■	■	■	■	■	■			■	■	■
32.3	■		■		■	■	■	■	■	■			■	■	■
35.3	■		■		■	■	■	■	■	■			■	■	■
40.3	■		■		■	■	■	■	■	■			■	■	■
50.3	■		■		■	■	■	■	■	■			■		
60.3	■		■		■	■	■	■	■	■			■		
63.3	■		■		■	■	■	■	■	■					
70.3	■		■		■	■	■	■	■	■					
80.3	■		■		■	■	■	■	■						
100.3	■		■		■	■	■	■							
120.3	■		■		■	■	■								
125.3	■		■		■	■									
150.3	■		■		■										
160.3	■		■		■										
175.3	■		■		■										
180.3	■		■		■										
200.3	■		■		■										
250.3	■		■												
300.3	■		■												



[GFSM O/S]: Surface Condition
Thickness: ground or fine milled
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
 Custom orders on request
 - according to your requirements!



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abrams-steel.com/O1-8



Technical Properties

Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness. Working hardness: 57-62 HRC.



Applications

Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calibers, guide rails, dies, punches, woodworking tools, machine knives.



AISI O1 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/O1

via smartphone / tablet:



PREMIUM O1 - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 1,000 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS											
	2.2	3.2	4.2	5.2	6.2	8.2	10.3	12.3	15.3	16.3	18.3	20.3
	Available Dimensions [■]											
8.2						■						
10.3	■	■	■	■	■	■	■	■				
12.3	■	■	■	■	■	■	■	■	■			
15.3	■	■	■	■	■	■	■	■	■	■		
16.3										■		
18.3											■	
20.3	■	■	■	■	■	■	■	■	■	■	■	■
25.3	■	■	■	■	■	■	■	■	■	■		■
30.3	■	■	■	■	■	■	■	■	■	■		
32.3	■	■	■	■	■	■	■	■	■	■		
35.3	■	■	■	■	■	■	■	■	■	■		
40.3	■	■	■	■	■	■	■	■				
50.3	■	■	■	■	■	■	■					
60.3	■	■	■	■	■	■						
63.3	■	■	■	■	■	■						
70.3	■	■	■	■	■	■						
80.3	■	■	■	■	■							
100.3	■	■	■	■								
120.3	■	■	■									
125.3	■	■	■									
150.3	■	■										
160.3	■	■										
175.3	■	■										
180.3	■											
200.3	■											



[GFSM O/S]: Surface Condition

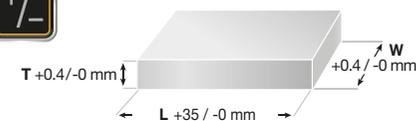
Thickness: ground or fine milled

Width: ground or fine milled

Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.

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- according to your requirements!



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Technical Properties

Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness. Working hardness: 57-62 HRC.



Applications

Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calibers, guide rails, dies, punches, woodworking tools, machine knives.



AISI O1 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/O1

via smartphone/tablet:



A2

A8 mod. / Chipper

D2

H10

H13

H13 ESR

L3

L6

O1



ABRAMS PREMIUM HARDENED STANDARDIZED BLANKS - GROUND OR FINE MILLED!

ABRAMS!
PREMIUM STEEL

PREMIUM O1 - HARD FLAT METRIC

TOOL STEEL

Length: 250 mm

METRIC DIMENSIONS in mm

	THICKNESS										
	2.2	2.7	3.2	3.7	4.2	4.7	5.2	6.2	7.2	8.2	9.2
WIDTH	Available Dimensions [■]										
250	■	■	■	■	■	■	■	■	■	■	■

Hard Flat

ALREADY HARDENED DIMENSIONS IN LENGTH OF 250 mm AND 500 mm !

Length: 500 mm

METRIC DIMENSIONS in mm

	THICKNESS				
	2.2	2.7	3.2	3.7	4.2
WIDTH	Available Dimensions [■]				
250	■	■	■	■	■

Hardened dimensions are delivered with approx. 57 HRC, at least double tempered.



[HardM]: Surface Condition

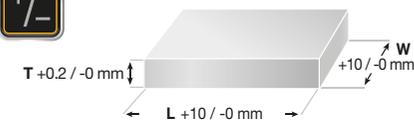
Thickness: ground or fine milled

Width: saw cut or sheared

Length: saw cut or sheared



Tolerances



Standard values

Delivery condition: maximum 229 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7



Don't see your exact dimension(s)?

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[250 mm] - abrams-steel.com/O1-14

[500 mm] - abrams-steel.com/O1-15



Technical Properties

Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness. Working hardness: 57-62 HRC.



Applications

Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calipers, guide rails, dies, punches, woodworking tools, machine knives.



AISI O1 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/O1

via smartphone/tablet:



A2

A8 mod. / Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

PREMIUM O1 - DRILL ROD

TOOL STEEL

Length: **36"**

IMPERIAL DIAMETERS in inch

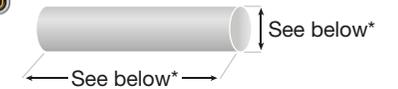
Available Diameters [●]									
1/16"	●	»	»	»	»	»	»	»	»
5/64"	●	19/64"	●	33/64"	●	47/64"	●	1-1/8"	●
3/32"	●	5/16"	●	17/32"	●	3/4"	●	1-1/4"	●
7/64"	●	21/64"	●	35/64"	●	49/64"	●	1-3/8"	●
1/8"	●	11/32"	●	9/16"	●	25/32"	●	1-1/2"	●
9/64"	●	23/64"	●	37/64"	●	51/64"	●	1-5/8"	●
5/32"	●	3/8"	●	19/32"	●	13/16"	●	1-3/4"	●
11/64"	●	25/64"	●	39/64"	●	7/8"	●	1-7/8"	●
3/16"	●	13/32"	●	5/8"	●	57/64"	●	2"	●
13/64"	●	27/64"	●	41/64"	●	29/32"	●		
7/32"	●	7/16"	●	21/32"	●	15/16"	●		
15/64"	●	29/64"	●	43/64"	●	31/32"	●		
1/4"	●	15/32"	●	11/16"	●	63/64"	●		
17/64"	●	31/64"	●	45/64"	●	1"	●		
9/32"	●	1/2"	●	23/32"	●	1-1/16"	●		
»		»		»		»			



[DR]: Surface Condition
Turned, ground & polished (TGP)



Tolerances



Standard values

Delivery condition: maximum 229 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
Custom orders on request
- according to your requirements.



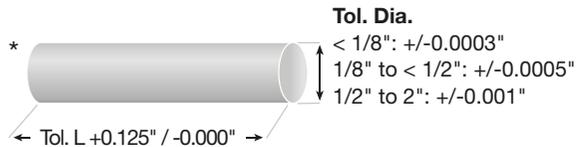
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abrams-steel.com/O1-17



Technical Properties

Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness. Working hardness: 57-62 HRC.



Applications

Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calibers, guide rails, dies, punches, woodworking tools, machine knives.



AISI O1 – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/O1

via smartphone / tablet:



PREMIUM O1 - DRILL ROD METRIC

TOOL STEEL

Length: 914 mm (36")

METRIC DIAMETERS in mm

Available Diameters [●]	
3.0	●
4.0	●
5.0	●
6.0	●
8.0	●
10.0	●
12.0	●
15.0	●
16.0	●
20.0	●
25.0	●

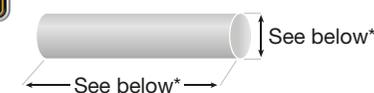


[DRM]: Surface Condition

Turned, ground & polished (TGP) - ISO h9



Tolerances



Standard values

Delivery condition: maximum 229 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
Custom orders on request
- according to your requirements.



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Technical Properties

Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness. Working hardness: 57-62 HRC.



Applications

Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calipers, guide rails, dies, punches, woodworking tools, machine knives.

A2

A8 mod. /
Chipper

D2

H10

H13

H13 ESR

L3

L6

O1



AISI O1 – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/O1

via smartphone/tablet:





ABRAMS PREMIUM DECARB FREE ROUNDS - PEELED OR ROUGH-TURNED!

ABRAMS!
PREMIUM STEEL

PREMIUM O1 - DECARB FREE ROUNDS

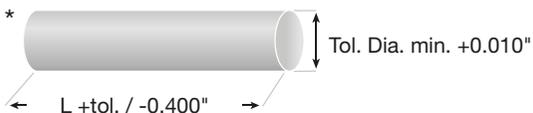
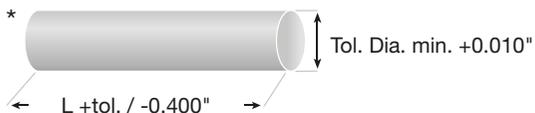
TOOL STEEL

Length: 18"

Length: 36" IMPERIAL DIAMETERS in inch

Available Diameters [●]	
1/4"	●
1/2"	●
3/4"	●
1"	●
1-1/4"	●
1-1/2"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

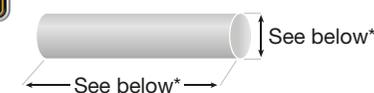
Available Diameters [●]	
1/4"	●
1/2"	●
3/4"	●
1"	●
1-1/4"	●
1-1/2"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



[DCF]: Surface Condition
Peeled or rough-turned



Tolerances



Standard values

Delivery condition: maximum 229 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.9	0.15	1.0	0	0	0.5	0.05	0.5
1.05	0.35	1.2	0.035	0.035	0.7	0.15	0.7



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
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- according to your requirements.



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[18"] - abrams-steel.com/O1-22
[36"] - abrams-steel.com/O1-23



Technical Properties

Alloyed oil hardener with focus on cold work; can be used for a wide range of applications: full hardenability, high degree of dimensional stability, good cutting power and good toughness. Working hardness: 57-62 HRC.



Applications

Blanking and stamping tools (up to 0.2362" thickness), shear knives, threading tools, thread dies, reamers, chasers, measuring tools, plastic molds, rubber molds, calipers, guide rails, dies, punches, woodworking tools, machine knives.



AISI O1 – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/O1

via smartphone/tablet:



A2

A8 mod. /
Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

PREMIUM P20 - \$mart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

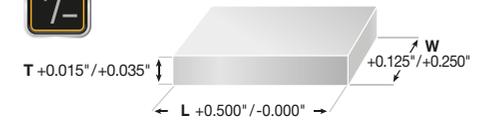
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 225 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.35	0.2	1.3	0	0	1.8	0.15
0.45	0.4	1.6	0.035	0.035	2.1	0.25



Don't see your exact dimension(s)?

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Technical Properties

Cold work steel and plastic mold steel (here annealed version).
 Good polishability and etchability. High through-hardenedness and uniform component strength.
 Working hardness: approx. 32-50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembly parts, molding frames, plastic molds, plastic processing, injection molds, die casting molds, hydroforming tools, recipient sleeves, intermediate sleeves, folding bars, tool holders, extrusion presses, tube presses, die holders, die insert.



AISI P20 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/P20

via smartphone / tablet:



PREMIUM P20 - \$smart FLAT STOCK

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

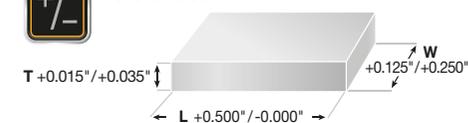
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 225 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.35	0.2	1.3	0	0	1.8	0.15
0.45	0.4	1.6	0.035	0.035	2.1	0.25



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties

Cold work steel and plastic mold steel (here annealed version). Good polishability and etchability. High through-hardenedability and uniform component strength. Working hardness: approx. 32-50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembly parts, molding frames, plastic molds, plastic processing, injection molds, die casting molds, hydroforming tools, recipient sleeves, intermediate sleeves, folding bars, tool holders, extrusion presses, tube presses, die holders, die insert.



AISI P20 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/P20

via smartphone / tablet:



A2

A8 mod. / Chipper

D2

H10

H13

H13 ESR

L3

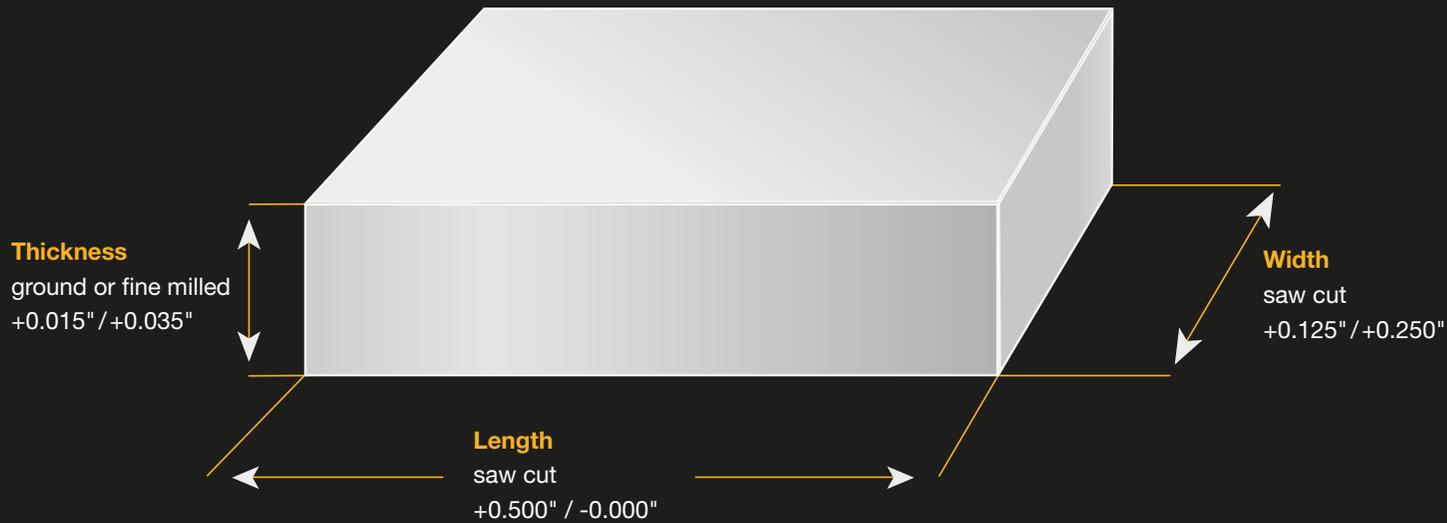
L6

O1

P20

Smart Flat Stock: SAVES YOU TIME - SAVES YOU MONEY

Always close to your final dimensions.

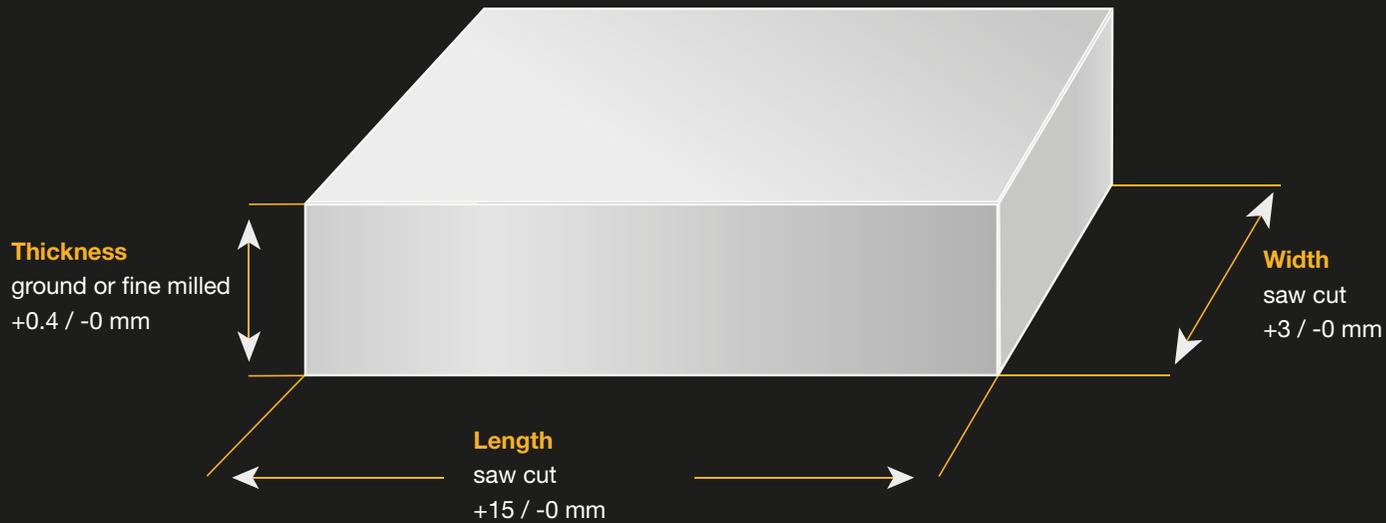


NEW TO THE AMERICAN MARKET !

METRIC

Smart Flat Stock: \$AVES YOU TIME - \$AVES YOU MONEY

Always close to your final dimensions.



A2

A8 mod. /
Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

P20

ABRAMS - SAVES TIME AND MONEY!

ABRAMS!
PREMIUM STEEL

PREMIUM P20 - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

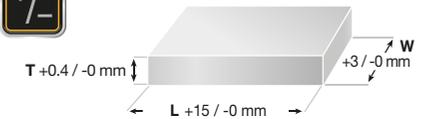
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 225 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.35	0.2	1.3	0	0	1.8	0.15
0.45	0.4	1.6	0.035	0.035	2.1	0.25



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Technical Properties

Cold work steel and plastic mold steel (here annealed version).
 Good polishability and etchability. High through-hardening and uniform component strength.
 Working hardness: approx. 32-50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembly parts, molding frames, plastic molds, plastic processing, injection molds, die casting molds, hydroforming tools, recipient sleeves, intermediate sleeves, folding bars, tool holders, extrusion presses, tube presses, die holders, die insert.



AISI P20 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/P20

via smartphone / tablet:



PREMIUM P20 - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition

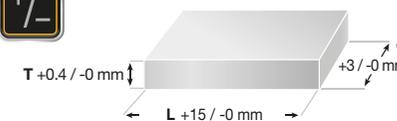
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 225 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.35	0.2	1.3	0	0	1.8	0.15
0.45	0.4	1.6	0.035	0.035	2.1	0.25



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Technical Properties

Cold work steel and plastic mold steel (here annealed version). Good polishability and etchability. High through-hardenedness and uniform component strength.

Working hardness: approx. 32-50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembly parts, molding frames, plastic molds, plastic processing, injection molds, die casting molds, hydroforming tools, recipient sleeves, intermediate sleeves, folding bars, tool holders, extrusion presses, tube presses, die holders, die insert.



AISI P20 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/P20

via smartphone / tablet:



A2

A8 mod. / Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

P20

PREMIUM P20 PH - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 500 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS									
	6.2	8.2	10.3	12.3	15.3	16.3	20.3	25.3	30.3	32.3
	Available Dimensions [■]									
12.3				■						
16.3						■				
20.3		■	■	■	■		■			
25.3		■	■	■	■	■	■	■		
30.3		■	■	■	■	■	■	■		
32.3	■	■	■	■	■	■	■	■		■
40.3	■	■	■	■	■	■	■	■	■	
50.3	■	■	■	■	■	■	■	■		
60.3	■	■	■	■	■	■	■	■		
63.3	■	■	■	■	■	■	■	■		
70.3	■	■	■	■	■	■	■	■		
80.3	■	■	■	■	■	■	■	■		
100.3	■	■	■							
125.3		■								

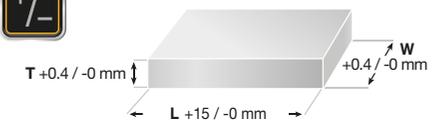


[GFSM O/S]: Surface Condition

Thickness: ground or fine milled
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 325 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.35	0.2	1.3	0	0	1.8	0.15
0.45	0.4	1.6	0.035	0.035	2.1	0.25



Don't see your exact dimension(s)?

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Technical Properties

Pre-hardened cold work steel and plastic mold steel. Good polishability and etchability. High through-hardening and uniform component strength. Working hardness: approx. 32 HRC (delivery condition) up to 50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembly parts, molding frames, plastic molds, plastic processing, injection molds, die casting molds, hydroforming tools, recipient sleeves, intermediate sleeves, folding bars, tool holders, extrusion presses, tube presses, die holders, die insert.



AISI P20 PH – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/P20PH

via smartphone / tablet:



PREMIUM P20 PH - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 1,000 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS						
	6.2	8.2	10.3	12.3	15.3	16.3	20.3
	Available Dimensions [■]						
12.3				■			
16.3						■	
20.3		■	■	■	■		■
25.3		■	■	■	■	■	■
30.3		■	■	■	■	■	
32.3	■	■	■	■	■	■	
40.3	■	■	■	■			
50.3	■	■	■				
60.3	■	■					
63.3	■	■					
70.3	■	■					
80.3	■						



[GFSM O/S]: Surface Condition

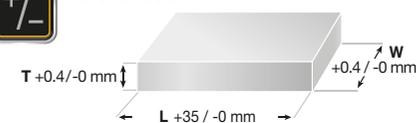
Thickness: ground or fine milled

Width: ground or fine milled

Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 325 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.35	0.2	1.3	0	0	1.8	0.15
0.45	0.4	1.6	0.035	0.035	2.1	0.25



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Technical Properties

Pre-hardened cold work steel and plastic mold steel. Good polishability and etchability. High through-hardenable and uniform component strength.

Working hardness: approx. 32 HRC (delivery condition) up to 50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembly parts, molding frames, plastic molds, plastic processing, injection molds, die casting molds, hydroforming tools, recipient sleeves, intermediate sleeves, folding bars, tool holders, extrusion presses, tube presses, die holders, die insert.

A2

A8 mod. / Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

P20

P20 PH



AISI P20 PH – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/P20PH

via smartphone / tablet:



PREMIUM P20 PH - \$mart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

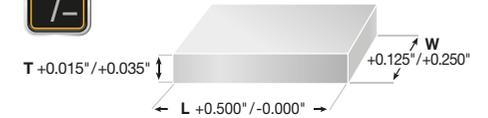
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 325 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.35	0.2	1.3	0	0	1.8	0.15
0.45	0.4	1.6	0.035	0.035	2.1	0.25



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Technical Properties

Pre-hardened cold work steel and plastic mold steel. Good polishability and etchability. High through-hardenability and uniform component strength.
 Working hardness: approx. 32 HRC (delivery condition) up to 50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembly parts, molding frames, plastic molds, plastic processing, injection molds, die casting molds, hydroforming tools, recipient sleeves, intermediate sleeves, folding bars, tool holders, extrusion presses, tube presses, die holders, die insert.



AISI P20 PH – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/P20PH

via smartphone / tablet:



PREMIUM P20 PH - \$mart FLAT STOCK

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

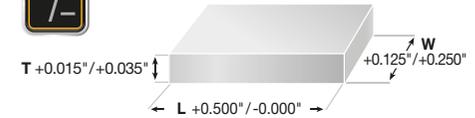
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 325 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.35	0.2	1.3	0	0	1.8	0.15
0.45	0.4	1.6	0.035	0.035	2.1	0.25



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Technical Properties

Pre-hardened cold work steel and plastic mold steel. Good polishability and etchability. High through-hardenedability and uniform component strength.
 Working hardness: approx. 32 HRC (delivery condition) up to 50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembly parts, molding frames, plastic molds, plastic processing, injection molds, die casting molds, hydroforming tools, recipient sleeves, intermediate sleeves, folding bars, tool holders, extrusion presses, tube presses, die holders, die insert.



AISI P20 PH – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/P20PH

via smartphone / tablet:



A2

A8 mod. / Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

P20

P20 PH

PREMIUM P20 PH - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

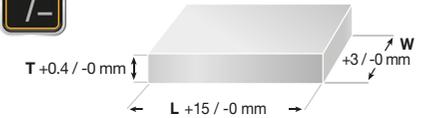
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 325 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.35	0.2	1.3	0	0	1.8	0.15
0.45	0.4	1.6	0.035	0.035	2.1	0.25



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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Technical Properties

Pre-hardened cold work steel and plastic mold steel. Good polishability and etchability. High through-hardening and uniform component strength.
 Working hardness: approx. 32 HRC (delivery condition) up to 50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembly parts, molding frames, plastic molds, plastic processing, injection molds, die casting molds, hydroforming tools, recipient sleeves, intermediate sleeves, folding bars, tool holders, extrusion presses, tube presses, die holders, die insert.



AISI P20 PH – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
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via smartphone / tablet:



PREMIUM P20 PH - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

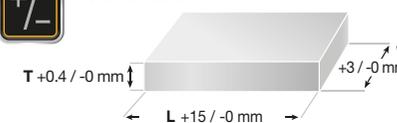
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 325 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.35	0.2	1.3	0	0	1.8	0.15
0.45	0.4	1.6	0.035	0.035	2.1	0.25



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Technical Properties

Pre-hardened cold work steel and plastic mold steel. Good polishability and etchability. High through-hardening and uniform component strength.
 Working hardness: approx. 32 HRC (delivery condition) up to 50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembly parts, molding frames, plastic molds, plastic processing, injection molds, die casting molds, hydroforming tools, recipient sleeves, intermediate sleeves, folding bars, tool holders, extrusion presses, tube presses, die holders, die insert.



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A2

A8 mod. /
 Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

P20

P20 PH



WATCH THE MAKING OF THE 12TH MOTIF FOR CALENDAR 2019 / 2022



A2

A8 mod. /
Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

P20

P20 PH

ABRAMS - PIONIEERING!

ABRAMS!
PREMIUM STEEL

PREMIUM P20+Ni - \$mart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

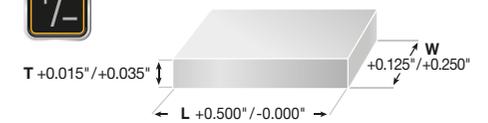
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 325 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.35	0.2	1.3	0	0	1.8	0.15	0.9
0.45	0.4	1.6	0.03	0.03	2.1	0.25	1.2



Don't see your exact dimension(s)?

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Technical Properties

Steel grade with focus on plastic mold making; nickel additives for a better through-hardenedness (constant strength), also for thicknesses >15.8" (> 400 mm).

Low sulphur steel and therefore polishable and easily grained.

Working hardness: approx. 32 HRC (delivery condition: quenched and tempered) up to 50 HRC.



Applications

Plastic molds, molding frames, die casting molds, dies, forging tools, metal extrusion tools, tube presses, hydroforming tools.



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PREMIUM P20+Ni - \$mart FLAT STOCK

TOOL STEEL

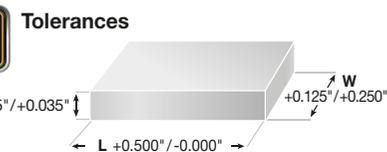
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Standard values
 Delivery condition: maximum 325 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.35	0.2	1.3	0	0	1.8	0.15	0.9
0.45	0.4	1.6	0.03	0.03	2.1	0.25	1.2



Don't see your exact dimension(s)?
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Technical Properties
 Steel grade with focus on plastic mold making; nickel additives for a better through-hardening (constant strength), also for thicknesses >15.8" (> 400 mm).
 Low sulphur steel and therefore polishable and easily grained.
 Working hardness: approx. 32 HRC (delivery condition: quenched and tempered) up to 50 HRC.



Applications
 Plastic molds, molding frames, die casting molds, dies, forging tools, metal extrusion tools, tube presses, hydroforming tools.



AISI P20+Ni – all at a glance!
 Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/P20Ni

via smartphone / tablet:



A2
 A8 mod. / Chipper
 D2
 H10
 H13
 H13 ESR
 L3
 L6
 O1
 P20
 P20 PH
 P20+Ni

PREMIUM P20+Ni - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

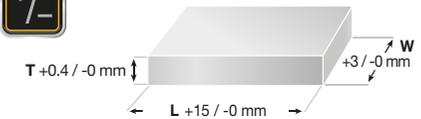
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 325 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.35	0.2	1.3	0	0	1.8	0.15	0.9
0.45	0.4	1.6	0.03	0.03	2.1	0.25	1.2



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Technical Properties

Steel grade with focus on plastic mold making; nickel additives for a better through-hardening (constant strength), also for thicknesses >15.8" (> 400 mm).

Low sulphur steel and therefore polishable and easily grained.

Working hardness: approx. 32 HRC (delivery condition: quenched and tempered) up to 50 HRC.



Applications

Plastic molds, molding frames, die casting molds, dies, forging tools, metal extrusion tools, tube presses, hydroforming tools.



AISI P20+Ni – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
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via smartphone / tablet:



PREMIUM P20+Ni - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

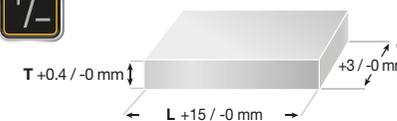
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 325 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.35	0.2	1.3	0	0	1.8	0.15	0.9
0.45	0.4	1.6	0.03	0.03	2.1	0.25	1.2



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Technical Properties

Steel grade with focus on plastic mold making; nickel additives for a better through-hardenableity (constant strength), also for thicknesses >15.8" (> 400 mm).

Low sulphur steel and therefore polishable and easily grained.

Working hardness: approx. 32 HRC (delivery condition: quenched and tempered) up to 50 HRC.



Applications

Plastic molds, molding frames, die casting molds, dies, forging tools, metal extrusion tools, tube presses, hydroforming tools.



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via smartphone / tablet:



A2

A8 mod. / Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

P20

P20 PH

P20+Ni



WATCH THE MAKING OF THE 2ND MOTIF FOR CALENDAR 2016 / 2019



A2

A8 mod. /
Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

P20

P20 PH

P20+Ni

ABRAMS - THE POWER OF STEEL GRADE VARIETY!

ABRAMS!
PREMIUM STEEL

PREMIUM S1 - \$smart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

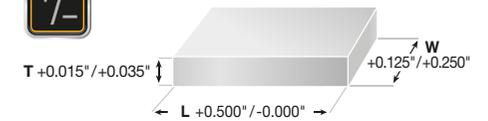
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.55	0.7	0.15	0	0	0.9	0.1	1.7
0.65	1.0	0.45	0.03	0.03	1.2	0.2	2.2



Don't see your exact dimension(s)?

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Technical Properties

Steel grade with focus on cold work, with full hardenability, excellent toughness, dimensional stability and impact strength.
 Working hardness: 56-60 HRC.



Applications

Blanking tools, dies, punches, forming dies, embossing tools, coining tools, tableting punches, plug-in tools, trimming tools, cold shear knives, riveting pins, hand chisels, pneumatic chisels, centre punches, ejectors, woodworking tools.



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PREMIUM S1 - \$smart FLAT STOCK

TOOL STEEL

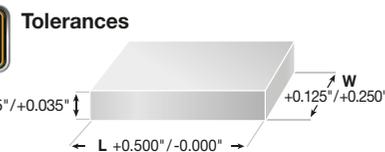
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.55	0.7	0.15	0	0	0.9	0.1	1.7
0.65	1.0	0.45	0.03	0.03	1.2	0.2	2.2



Don't see your exact dimension(s)?
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Technical Properties
 Steel grade with focus on cold work, with full hardenability, excellent toughness, dimensional stability and impact strength.
 Working hardness: 56-60 HRC.



Applications
 Blanking tools, dies, punches, forming dies, embossing tools, coining tools, tableting punches, plug-in tools, trimming tools, cold shear knives, riveting pins, hand chisels, pneumatic chisels, centre punches, ejectors, woodworking tools.



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via smartphone / tablet:

- A2
- A8 mod. / Chipper
- D2
- H10
- H13
- H13 ESR
- L3
- L6
- O1
- P20
- P20 PH
- P20+Ni
- S1

PREMIUM S1 - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

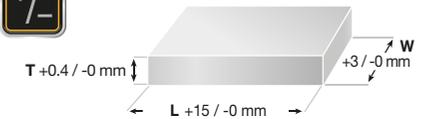
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.55	0.7	0.15	0	0	0.9	0.1	1.7
0.65	1.0	0.45	0.03	0.03	1.2	0.2	2.2



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Technical Properties

Steel grade with focus on cold work, with full hardenability, excellent toughness, dimensional stability and impact strength.
 Working hardness: 56-60 HRC.



Applications

Blanking tools, dies, punches, forming dies, embossing tools, coining tools, tableting punches, plug-in tools, trimming tools, cold shear knives, riveting pins, hand chisels, pneumatic chisels, centre punches, ejectors, woodworking tools.



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via smartphone / tablet:



PREMIUM S1 - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

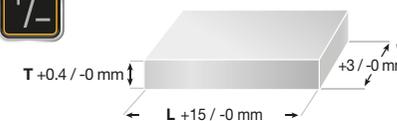
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 229 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	V	W
0.55	0.7	0.15	0	0	0.9	0.1	1.7
0.65	1.0	0.45	0.03	0.03	1.2	0.2	2.2



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Technical Properties

Steel grade with focus on cold work, with full hardenability, excellent toughness, dimensional stability and impact strength.
 Working hardness: 56-60 HRC.



Applications

Blanking tools, dies, punches, forming dies, embossing tools, coining tools, tableting punches, plug-in tools, trimming tools, cold shear knives, riveting pins, hand chisels, pneumatic chisels, centre punches, ejectors, woodworking tools.



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via smartphone / tablet:



A2

A8 mod. /
 Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

P20

P20 PH

P20+Ni

S1



WATCH THE MAKING OF THE 3TH MOTIF FOR CALENDAR 2016 / 2019



ON REQUEST - SAW CUT - MILLED - GROUND!

A2

A8 mod. /
Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

P20

P20 PH

P20+Ni

S1

PREMIUM S7 - \$smart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

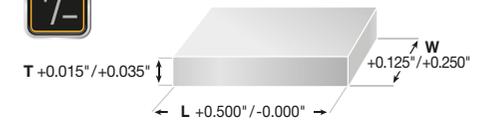
WIDTH	THICKNESS																					
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	
	Available Dimensions [■]																					
1"	■	■	■	■	■	■	■	■	■	■	■											
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■										
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■									
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■								
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■							
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■						
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■					
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 225 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.45	0.2	0.2	0	0	3.0	1.3	0
0.55	1.0	0.9	0.03	0.03	3.5	1.8	0.35



Don't see your exact dimension(s)?

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Technical Properties

This tool steel is a general purpose air hardening grade having high impact and shock resistance. It has also a good resistance to softening at moderately high temperatures. This combination of properties makes it suitable for many hot-work and cold-work applications.

Working hardness: 56-60 HRC.



Applications

Cutting tools, cold forming and bending dies, plastic molding dies, shear blades, chisels, rivet sets, punches, driver bolts.



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via smartphone / tablet:



PREMIUM S7 - \$smart FLAT STOCK

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

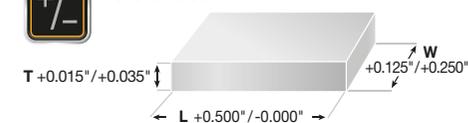
WIDTH	THICKNESS																						
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"		
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 225 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.45	0.2	0.2	0	0	3.0	1.3	0
0.55	1.0	0.9	0.03	0.03	3.5	1.8	0.35



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
 Custom orders on request
 - according to your requirements!



Contact us

+1 (331) 234-9900
 sales@abrams-industries.com



Direct access to our online shop

abrams-steel.com/S7-11



Technical Properties

This tool steel is a general purpose air hardening grade having high impact and shock resistance. It has also a good resistance to softening at moderately high temperatures. This combination of properties makes it suitable for many hot-work and cold-work applications.

Working hardness: 56-60 HRC.



Applications

Cutting tools, cold forming and bending dies, plastic molding dies, shear blades, chisels, rivet sets, punches, driver bolts.



AISI S7 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/S7

via smartphone / tablet:



PREMIUM S7 - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

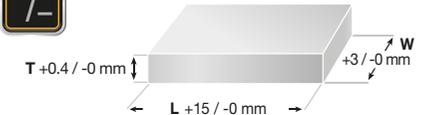
WIDTH	THICKNESS																	
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]																	
33	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 225 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.45	0.2	0.2	0	0	3.0	1.3	0
0.55	1.0	0.9	0.03	0.03	3.5	1.8	0.35



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



Contact us

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abrams-steel.com/S7-12



Technical Properties

This tool steel is a general purpose air hardening grade having high impact and shock resistance. It has also a good resistance to softening at moderately high temperatures. This combination of properties makes it suitable for many hot-work and cold-work applications.

Working hardness: 56-60 HRC.



Applications

Cutting tools, cold forming and bending dies, plastic molding dies, shear blades, chisels, rivet sets, punches, driver bolts.



AISI S7 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/S7

via smartphone / tablet:



PREMIUM S7 - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS																	
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
Available Dimensions [■]																		
33	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

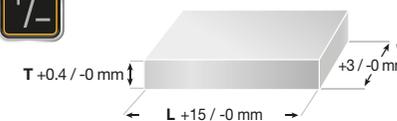
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 225 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.45	0.2	0.2	0	0	3.0	1.3	0
0.55	1.0	0.9	0.03	0.03	3.5	1.8	0.35



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.

Custom orders on request

- according to your requirements!



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Direct access to our online shop

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Technical Properties

This tool steel is a general purpose air hardening grade having high impact and shock resistance. It has also a good resistance to softening at moderately high temperatures. This combination of properties makes it suitable for many hot-work and cold-work applications.

Working hardness: 56-60 HRC.



Applications

Cutting tools, cold forming and bending dies, plastic molding dies, shear blades, chisels, rivet sets, punches, driver bolts.



AISI S7 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/S7

via smartphone / tablet:



Length: **36"**

IMPERIAL DIAMETERS in inch

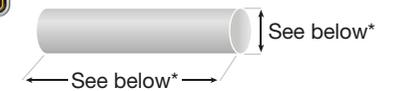
Available Diameters [●]	
1/16"	●
3/32"	●
1/8"	●
5/32"	●
3/16"	●
7/32"	●
1/4"	●
5/16"	●
3/8"	●
7/16"	●
1/2"	●
5/8"	●
3/4"	●
7/8"	●
1"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●



[DR]: Surface Condition
Turned, ground & polished (TGP)



Tolerances



Standard values

Delivery condition: maximum 225 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.45	0.2	0.2	0	0	3.0	1.3	0
0.55	1.0	0.9	0.03	0.03	3.5	1.8	0.35



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
Custom orders on request
- according to your requirements.



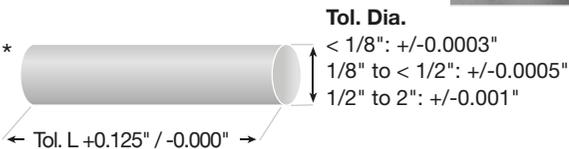
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Technical Properties

This tool steel is a general purpose air hardening grade having high impact and shock resistance. It has also a good resistance to softening at moderately high temperatures. This combination of properties makes it suitable for many hot-work and cold-work applications.

Working hardness: 56-60 HRC.



Applications

Cutting tools, cold forming and bending dies, plastic molding dies, shear blades, chisels, rivet sets, punches, driver bolts.



AISI S7 – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/S7

via smartphone / tablet:



PREMIUM S7 - DECARB FREE ROUNDS

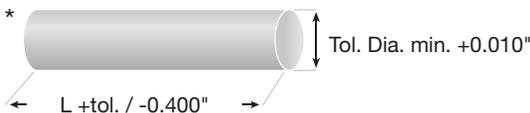
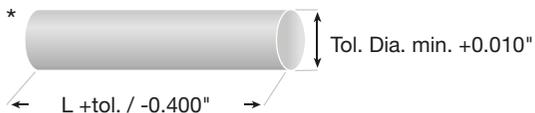
TOOL STEEL

Length: **18"**

Length: **36"** **IMPERIAL DIAMETERS in inch**

Available Diameters [●]	
1/4"	●
1/2"	●
3/4"	●
1"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

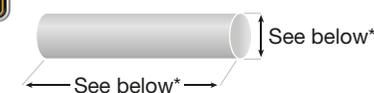
Available Diameters [●]	
1/4"	●
1/2"	●
3/4"	●
1"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



[DCF]: Surface Condition
Peeled or rough-turned



Tolerances



Standard values

Delivery condition: maximum 225 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.45	0.2	0.2	0	0	3.0	1.3	0
0.55	1.0	0.9	0.03	0.03	3.5	1.8	0.35



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
Custom orders on request
- according to your requirements.



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Direct access to our online shop

[18"] - abrams-steel.com/S7-22
[36"] - abrams-steel.com/S7-23



Technical Properties

This tool steel is a general purpose air hardening grade having high impact and shock resistance. It has also a good resistance to softening at moderately high temperatures. This combination of properties makes it suitable for many hot-work and cold-work applications.

Working hardness: 56-60 HRC.



Applications

Cutting tools, cold forming and bending dies, plastic molding dies, shear blades, chisels, rivet sets, punches, driver bolts.



AISI S7 – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/S7

via smartphone/tablet:



A2

A8 mod. /
Chipper

D2

H10

H13

H13 ESR

L3

L6

O1

P20

P20 PH

P20+Ni

S1

S7



WATCH THE MAKING OF THE 1ST MOTIF FOR CALENDAR 2019 / 2022



PREMIUM QUALITY - OUR HIGHEST STANDARD!

ABRAMS!
PREMIUM STEEL

FLATS !

Below are our flats in different categories in imperial as well as metric sizes. Every item is available in different **thickness**, **width** and **length**. On request – specific to your needs!

IMPERIAL



Precision Ground Flat Stock, regular [GFS reg]

For example: 3/4" x 4" x 36" reg

- **Thickness** ground, tol. +/-0.001"
- **Width** ground or fine milled, tol. +0.005" / -0.000"
- **Length** milled or saw cut, tol. +0.125" / +0.500"



Precision Ground Flat Stock, oversize [GFS O/S]

For example: 3/4" x 4" x 36" O/S

- **Thickness** ground, tol. +0.010" / +0.015"
- **Width** ground or fine milled, tol. +0.010" / +0.015"
- **Length** milled or saw cut, tol. +0.125" / +0.500"



\$mart Flat Stock [\$mart] Standardized Precision Blanks

For example: 3/4" x 4" x 24"

- **Thickness** ground or fine milled, tol. +0.015" / +0.035"
- **Width** saw cut, tol. +0.125" / +0.250"
- **Length** saw cut, tol. +0.500" / -0.000"



EDM Block hardened [EDM]

For example: 1/2" x 4" x 4"

- **Thickness** ground or fine milled, tol. +0.010" / -0.000"
- Square dimension ground or fine milled, tol. min. +0.0125"
- Grain structure is perpendicular in relation to top & bottom.

METRIC



Precision Ground Flat Stock Metric, regular [GFSM reg] acc. to DIN* 59350

For example: 20.0 x 100.0 x 1,000 mm

- **Thickness** ground or fine milled, tol. +0.05 / -0 mm
 - **Width** ground or fine milled, tol. +0.2 / -0 mm
 - **Length** milled or saw cut, tol. +35 / -0 mm
- Exception: AISI 1045: **T** +0.25 / -0 mm; **W** +0.4 / -0 mm



Precision Ground Flat Stock Metric, oversize [GFSM O/S]

For example: 20.3 x 100.3 x 1,000 mm

- **Thickness** ground or fine milled, tol. +0.4 / -0 mm
- **Width** ground or fine milled, tol. +0.4 / -0 mm
- **Length** milled or saw cut, tol. +35 / -0 mm



\$mart Flat Stock Metric [\$martM] Standardized Precision Blanks Metric

For example: 20.3 x 103 x 600 mm

- **Thickness** ground or fine milled, tol. +0.4 / -0 mm
- **Width** saw cut, tol. +3 / -0 mm
- **Length** saw cut, tol. +15 / -0 mm



Hard Flat Metric [HardM] Hardened Standardized Blanks Metric

For example: 10.2 x 250 x 500 mm

- **Thickness** ground or fine milled, tol. +0.2 / -0 mm
- **Width** saw cut or sheared, tol. +10 / -0 mm
- **Length** saw cut or sheared, tol. +10 / -0 mm

Flatness tolerance: +0.2 / -0 mm across the item (aimed for)

*DIN: DEUTSCHE INDUSTRIE NORM (GERMAN INDUSTRY STANDARD) !

Precision ground flat stock is a bar with a sharp-edged, rectangular or square cross-section made of tool steel with finely machined, decarburization-free longitudinal surfaces. In Germany, it is standardized in DIN 59350. Precision ground flat stock is used primarily as a semi-finished product in machine, tool, fixture and mold construction.

For more details on our shapes see: us.abrams-industries.com/product-overview



ROUNDS !

Below are our rounds in different categories in imperial as well as metric sizes.

Any item is available in different **diameters** and / or **length**. On request – specific to your needs!

IMPERIAL



Drill Rod [DR] Precision Round Bars

For example: DR 3/4" x 36"

Turned, ground & polished (TGP)

- Tol. Dia. < 1/8": +/-0.0003", L +0.125" / -0.000"
- Tol. Dia. 1/8" to < 1/2": +/-0.0005", L +0.125" / -0.000"
- Tol. Dia. 1/2" to 2": +/-0.001", L +0.125" / -0.000"



Cold Finished Rounds [CF] Precision Round Bars

For example: CF 3/4" x 36"

Drawn, smooth turned, ground, or ground and polished

- Tol. Dia. < 1/2": +/-0.0015", L +tol. / -0.400"
- Tol. Dia. 1/2" to < 1-1/2": +/-0.0025", L +tol. / -0.400"
- Tol. Dia. 1-1/2" to 4": +/-0.004", L +tol. / -0.400"

These are maximum tolerances. For more exact tolerances call our sales team.



Decarb Free Rounds [DCF] Oversize Round Bars

For example: DCF 3/4" x 36"

Peeled or rough-turned

- Tol. Dia. min. +0.010", L +tol. / -0.400"
- Exception: 4XX Series stainless steel, tol. Dia. +tol. / -0.000", L +tol. / -0.400"

These steel rounds are oversized to finish to nominal diameter.

METRIC



Drill Rod Metric [DRM] Precision Round Bars Metric

For example: DRM 10.0 mm x 914 mm (36")

Turned, ground & polished (TGP) - ISO h9

- Tol. Dia. ≤ 10.0 mm: +0 / -0.036 mm, L +tol.
- Tol. Dia. > 10.0 mm to 18.0 mm: +0 / -0.043 mm, L +tol.
- Tol. Dia. > 18.0 mm to 25.0 mm: +0 / -0.052 mm, L +tol.

These are maximum tolerances. For more exact tolerances call our sales team.



Cold Finished Rounds Metric [CFM] Precision Round Bars Metric

For example: CFM 10.0 mm x 914 mm (36")

Drawn, smooth turned, ground, or ground and polished (ISO h9)

- Tol. Dia. ≤ 10.0 mm: +0 / -0.036 mm, L +tol.
- Tol. Dia. > 10.0 mm to 18.0 mm: +0 / -0.043 mm, L +tol.
- Tol. Dia. > 18.0 mm to 25.0 mm: +0 / -0.052 mm, L +tol.

These are maximum tolerances. For more exact tolerances call our sales team.

STEEL CATEGORIES !

Steel grades are classified by their **technical properties** and/or by their **intended use**.

For example: Cold work steel, hot work steel, plastic mold steel, high speed steel, corrosion resistant steel or case hardening steel.

Steel grades are often assigned to several classification groups.

For more details on our shapes see: us.abrams-industries.com/product-overview





WATCH THE MAKING OF THE
4TH MOTIF FOR CALENDAR
2019 / 2022



ABRAMS PREMIUM TOOL STEEL!

ABRAMS!
PREMIUM STEEL

TOOL STEEL II

STEEL GRADE - AISI

	GFS reg 18" - 36"	GFS O/S 18" - 36"	GFS reg 24"	GFSM reg 500 mm, 1,000 mm	GFSM O/S 500 mm, 1,000 mm	Smart 12" - 24"	SmartM 300 mm, 600 mm	HardM 250 mm, 500 mm	EDM (hardened)	DR 36"	DRM 914 mm (36")	CF 18" - 36"	CFM 914 mm (36")	DCF 18" - 36"	Max. delivery hardness (annealed / pre-hardened) [BHN]	Delivery hardness (hardened) approx. [HRC]	Tensile strength (deliv. cond.) approx. [HRC]	Max. working hardness [KSI]	Cold Work Steel	Hot Work Steel	Plastic Mold Steel	High Speed Steel	Stainless Steel	Stainless Steel, corrosion resistant	Heat-Treatable Steel	Case Hardening Steel
PREMIUM Toolox 33				✓	✓									330	163.1	36	✓		✓							
PREMIUM Toolox 44				✓	✓									418	205.9	45	✓		✓							
PREMIUM W1								✓						200	97.9	65	✓									
PREMIUM 1018 / A36		✓									✓			162	72.5	60	✓									
PREMIUM 1045			✓											190	94.2	54	✓									
PREMIUM 2990 mod.				✓	✓									250	123.2	63	✓		✓							
PREMIUM 420 ESR				✓	✓									241	118.2	55			✓		✓	✓				
PREMIUM 420 LC				✓	✓	✓								330	163.1	35			✓		✓					
PREMIUM 420FM				✓	✓	✓								330	163.1	48			✓		✓					
PREMIUM 5120				✓	✓	✓								217	104.4	60	✓		✓						✓	
PREMIUM 52100 / L1				✓	✓									223	108.7	64	✓									
PREMIUM 6F7 ESR				✓	✓									260	127.6	54	✓	✓	✓							

IMPERIAL

- Precision Ground Flat Stock, regular [GFS reg]
- Precision Ground Flat Stock, oversize [GFS O/S]
- Smart Flat Stock [Smart] - Standardized Precision Blanks
- EDM Block hardened [EDM]
- Drill Rod [DR] - Precision Round Bars
- Cold Finished Rounds [CF] - Precision Round Bars
- Decarb Free Rounds [DCF] - Oversize Round Bars

METRIC

- Precision Ground Flat Stock Metric, regular [GFSM reg] - acc. to DIN* 59350
- Precision Ground Flat Stock Metric, oversize [GFSM O/S]
- Smart Flat Stock Metric [SmartM] - Standardized Precision Blanks Metric
- Hard Flat Metric [HardM] - Hardened Standardized Blanks Metric
- Drill Rod Metric [DRM] - Precision Round Bars Metric
- Cold Finished Rounds Metric [CFM] - Precision Round Bars Metric
- *DIN: Deutsche Industrie Norm (German Industry Standard)

PREMIUM Toolox 33 - \$mart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

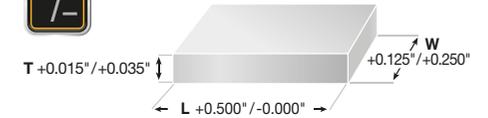
WIDTH	THICKNESS										
	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"
Available Dimensions [■]											
1"	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.22	0.6	0.8	0	0	1.0	0.3	0	0.1
0.24	1.1	0.8	0.01	0.003	1.2	0.3	1.0	0.11



Don't see your exact dimension(s)?

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Technical Properties

Quenched and tempered low alloy tool steel with good machinability, high toughness and low residual stresses. Can easily be polished, grained, eroded, etched, sliced, welded, nitrided, and coated with PVD (Physical Vapor Deposition). Further heat treatment is not intended.

Working hardness without nitriding: approx. 30-36 HRC (delivery condition).



Applications

Mechanical engineering, machine parts, guide rails, base plates, assembly parts, press brake tools, plate forming tools, wear parts, plastic molds, molding frames, forming tools, rubber molds, die casting molds.



AISI Toolox 33 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/T33

via smartphone / tablet:



PREMIUM Toolox 33 - \$mart FLAT STOCK

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

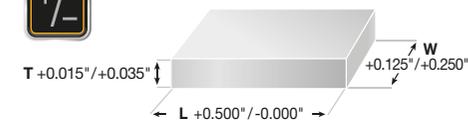
WIDTH	THICKNESS											
	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	
Available Dimensions [■]												
1"	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.22	0.6	0.8	0	0	1.0	0.3	0	0.1
0.24	1.1	0.8	0.01	0.003	1.2	0.3	1.0	0.11



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Technical Properties

Quenched and tempered low alloy tool steel with good machinability, high toughness and low residual stresses. Can easily be polished, grained, eroded, etched, sliced, welded, nitrided, and coated with PVD (Physical Vapor Deposition). Further heat treatment is not intended.
 Working hardness without nitriding: approx. 30-36 HRC (delivery condition).



Applications

Mechanical engineering, machine parts, guide rails, base plates, assembly parts, press brake tools, plate forming tools, wear parts, plastic molds, molding frames, forming tools, rubber molds, die casting molds.



AISI Toolox 33 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/T33

via smartphone/tablet:



PREMIUM Toolox 33 - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: 300 mm

METRIC DIMENSIONS in mm

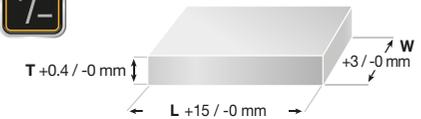
WIDTH	THICKNESS											
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3
	Available Dimensions [mm]											
33	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.22	0.6	0.8	0	0	1.0	0.3	0	0.1
0.24	1.1	0.8	0.01	0.003	1.2	0.3	1.0	0.11



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Technical Properties

Quenched and tempered low alloy tool steel with good machinability, high toughness and low residual stresses. Can easily be polished, grained, eroded, etched, sliced, welded, nitrided, and coated with PVD (Physical Vapor Deposition). Further heat treatment is not intended.

Working hardness without nitriding: approx. 30-36 HRC (delivery condition).



Applications

Mechanical engineering, machine parts, guide rails, base plates, assembly parts, press brake tools, plate forming tools, wear parts, plastic molds, molding frames, forming tools, rubber molds, die casting molds.



AISI Toolox 33 – all at a glance!

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via smartphone / tablet:



PREMIUM Toolox 33 - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS											
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3
Available Dimensions [■]												
33	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition

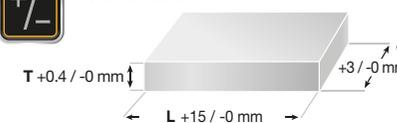
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.22	0.6	0.8	0	0	1.0	0.3	0	0.1
0.24	1.1	0.8	0.01	0.003	1.2	0.3	1.0	0.11



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Technical Properties

Quenched and tempered low alloy tool steel with good machinability, high toughness and low residual stresses. Can easily be polished, grained, eroded, etched, sliced, welded, nitrided, and coated with PVD (Physical Vapor Deposition).

Further heat treatment is not intended.

Working hardness without nitriding: approx. 30-36 HRC (delivery condition).



Applications

Mechanical engineering, machine parts, guide rails, base plates, assembly parts, press brake tools, plate forming tools, wear parts, plastic molds, molding frames, forming tools, rubber molds, die casting molds.



AISI Toolox 33 – all at a glance!

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WATCH THE MAKING OF THE 3RD MOTIF FOR CALENDAR 2013 / 2016



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PREMIUM STEEL

PREMIUM Toolox 44 - \$mart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

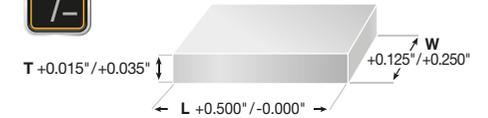
WIDTH	THICKNESS												
	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	
	Available Dimensions [■]												
1"	■	■	■	■	■	■	■	■	■				
1-1/4"	■	■	■	■	■	■	■	■	■	■			
1-1/2"	■	■	■	■	■	■	■	■	■	■	■		
2"	■	■	■	■	■	■	■	■	■	■	■	■	
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 418 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.32	0.6	0.8	0	0	1.35	0.8	0	0.14
0.32	1.1	0.8	0.01	0.003	1.35	0.8	1.0	0.14



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Technical Properties

Low-alloyed tool steel with high-impact toughness, quenched and tempered up to approx. 45 HRC. Machinable with suitable tools because of its low carbide content. Good dimensional and shape stability. Can easily be polished, grained, eroded, etched, sliced, welded, nitrided, and coated with PVD (Physical Vapor Deposition).

Working hardness: approx. 45 HRC (delivery condition).



Applications

Mechanical engineering, machine parts, guide rails, base plates, assembly parts, press brake tools, plate forming tools, wear parts, plastic molds, molding frames, forming tools, rubber molds, die casting molds.



AISI Toolox 44 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/T44

via smartphone / tablet:



PREMIUM Toolox 44 - \$mart FLAT STOCK

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

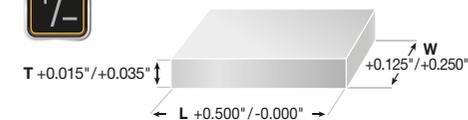
WIDTH	THICKNESS											
	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
Available Dimensions [■]												
1"	■	■	■	■	■	■	■	■	■			
1-1/4"	■	■	■	■	■	■	■	■	■			
1-1/2"	■	■	■	■	■	■	■	■	■	■		
2"	■	■	■	■	■	■	■	■	■	■	■	
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 418 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.32	0.6	0.8	0	0	1.35	0.8	0	0.14
0.32	1.1	0.8	0.01	0.003	1.35	0.8	1.0	0.14



Don't see your exact dimension(s)?

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Technical Properties

Low-alloyed tool steel with high-impact toughness, quenched and tempered up to approx. 45 HRC. Machinable with suitable tools because of its low carbide content. Good dimensional and shape stability. Can easily be polished, grained, eroded, etched, sliced, welded, nitrided, and coated with PVD (Physical Vapor Deposition).

Working hardness: approx. 45 HRC (delivery condition).



Applications

Mechanical engineering, machine parts, guide rails, base plates, assembly parts, press brake tools, plate forming tools, wear parts, plastic molds, molding frames, forming tools, rubber molds, die casting molds.



AISI Toolox 44 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/T44

via smartphone/tablet:



PREMIUM Toolox 44 - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

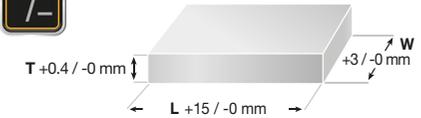
WIDTH	THICKNESS												
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 418 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.32	0.6	0.8	0	0	1.35	0.8	0	0.14
0.32	1.1	0.8	0.01	0.003	1.35	0.8	1.0	0.14



Don't see your exact dimension(s)?

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Technical Properties

Low-alloyed tool steel with high-impact toughness, quenched and tempered up to approx. 45 HRC. Machinable with suitable tools because of its low carbide content. Good dimensional and shape stability. Can easily be polished, grained, eroded, etched, sliced, welded, nitrided, and coated with PVD (Physical Vapor Deposition).

Working hardness: approx. 45 HRC (delivery condition).



Applications

Mechanical engineering, machine parts, guide rails, base plates, assembly parts, press brake tools, plate forming tools, wear parts, plastic molds, molding frames, forming tools, rubber molds, die casting molds.



AISI Toolox 44 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/T44

via smartphone / tablet:



PREMIUM Toolox 44 - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

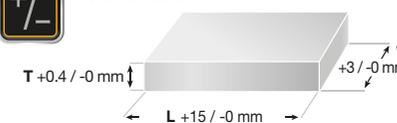
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 418 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	V
0.32	0.6	0.8	0	0	1.35	0.8	0	0.14
0.32	1.1	0.8	0.01	0.003	1.35	0.8	1.0	0.14



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.

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Technical Properties

Low-alloyed tool steel with high-impact toughness, quenched and tempered up to approx. 45 HRC. Machinable with suitable tools because of its low carbide content. Good dimensional and shape stability. Can easily be polished, grained, eroded, etched, sliced, welded, nitrided, and coated with PVD (Physical Vapor Deposition).

Working hardness: approx. 45 HRC (delivery condition).



Applications

Mechanical engineering, machine parts, guide rails, base plates, assembly parts, press brake tools, plate forming tools, wear parts, plastic molds, molding frames, forming tools, rubber molds, die casting molds.



AISI Toolox 44 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/T44

via smartphone/tablet:





ABRAMS PREMIUM DRILL ROD - PRECISION ROUND BARS (TGP)!

ABRAMS!
PREMIUM STEEL

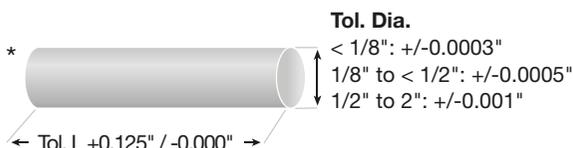
PREMIUM W1 - DRILL ROD

TOOL STEEL

Length: **36"**

IMPERIAL DIAMETERS in inch

Available Diameters[●]									
1/16"	●	»	»	»	»	»	»	»	»
5/64"	●	19/64"	●	33/64"	●	13/16"	●	1-7/16"	●
3/32"	●	5/16"	●	17/32"	●	27/32"	●	1-1/2"	●
7/64"	●	21/64"	●	9/16"	●	7/8"	●	1-9/16"	●
1/8"	●	11/32"	●	37/64"	●	57/64"	●	1-5/8"	●
9/64"	●	23/64"	●	19/32"	●	29/32"	●	1-11/16"	●
5/32"	●	3/8"	●	5/8"	●	15/16"	●	1-3/4"	●
11/64"	●	25/64"	●	21/32"	●	31/32"	●	1-13/16"	●
3/16"	●	13/32"	●	43/64"	●	63/64"	●	1-7/8"	●
13/64"	●	27/64"	●	11/16"	●	1"	●	2"	●
7/32"	●	7/16"	●	23/32"	●	1-1/16"	●		
15/64"	●	29/64"	●	47/64"	●	1-1/8"	●		
1/4"	●	15/32"	●	3/4"	●	1-3/16"	●		
17/64"	●	31/64"	●	49/64"	●	1-1/4"	●		
9/32"	●	1/2"	●	25/32"	●	1-3/8"	●		
»		»		»		»			



[DR]: Surface Condition
 Turned, ground & polished (TGP)



Tolerances
 See below*



Standard values
 Delivery condition: maximum 200 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V	W
0.9	0.1	0.3	0	0	0	0	0	0
1.05	0.25	0.4	0.025	0.025	0.2	0.1	0.1	0.2



Don't see your exact dimension(s)?
 Any diameter is available in different lengths (e.g. round blanks).
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Technical Properties

W1 is a water-hardening tool steel with a moderate wear resistance that is easy to machine. Its high carbon content results in a keen cutting edge. In essence, W1 is a simple high carbon steel and can easily be hardened by heating and quenching in water.
 Working hardness: 55-65 HRC.



Applications

Cutting tools, knives, razor blades, broaching tools, tools for screw cutting, embossing taps, cutlery, chisels, drawing dies, tools for hardest stones, shafts, pins.



AISI W1 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/W1

via smartphone/tablet:



Toolox 33

Toolox 44

W1

PREMIUM 1018 / A36 - PRECISION GROUND FLAT STOCK, REGULAR

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

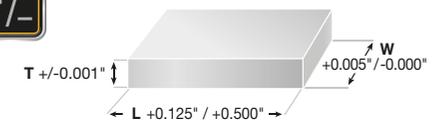
WIDTH	THICKNESS																				
	1/16"	3/32"	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	1-1/2"	2"	2-1/4"	2-1/2"	
3/16"					■																
1/4"						■															
5/16"							■														
3/8"								■													
7/16"									■												
1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5/8"											■										
3/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7/8"													■								
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/8"															■						
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/4"																				■	
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3 1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"																					
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"																					
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[GFS reg]: Surface Condition
Thickness: ground
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 162 BHN
 Chemical composition:

C	Si	Mn	P	S
0	0	0.6	0	0
0.29	0.4	1.2	0.04	0.05



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties

This grade is one of the commonly used low carbon steels. It has good weldability, surface hardening quality, higher mechanical properties and a very good machinability. Working hardness: 50-60 HRC.



Applications

Gears, pinions, ratchets, worms, pins, chain pins, machine parts, tools and mold components.



AISI 1018 / A36 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/1018-A36

via smartphone / tablet:



PREMIUM 1018 / A36 - COLD FINISHED ROUNDS

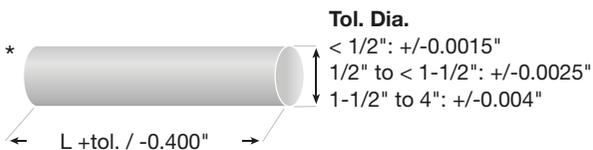
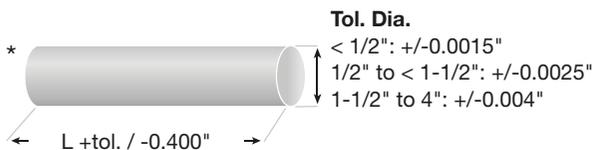
TOOL STEEL

Length: **18"**

Length: **36"** **IMPERIAL DIAMETERS in inch**

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



[CF]: Surface Condition
 Drawn, smooth turned, ground, or ground and polished



Tolerances



Standard values
 Delivery condition: maximum 162 BHN
 Chemical composition:

C	Si	Mn	P	S
0	0	0.6	0	0
0.29	0.4	1.2	0.04	0.05



Don't see your exact dimension(s)?
 Any diameter is available in different lengths (e.g. round blanks).
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[18"] - abrams-steel.com/1018-A36-19
[36"] - abrams-steel.com/1018-A36-20



Technical Properties
 This grade is one of the commonly used low carbon steels. It has good weldability, surface hardening quality, higher mechanical properties and a very good machinability.
 Working hardness: 50-60 HRC.



Applications
 Gears, pinions, ratchets, worms, pins, chain pins, machine parts, tools and mold components.



AISI 1018 / A36 - all at a glance!
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/1018-A36

via smartphone/tablet:



PREMIUM 1045 - PRECISION GROUND FLAT STOCK METRIC, REGULAR

TOOL STEEL

Length: 500 mm

METRIC DIMENSIONS in mm

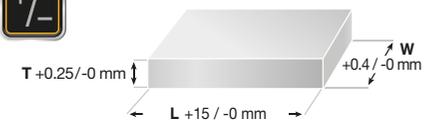
WIDTH	THICKNESS											
	4	5	6	8	10	12	15	16	20	25	30	32
	Available Dimensions [■]											
10					■							
12						■						
15							■					
16								■				
20	■	■	■	■	■	■	■	■	■			
25	■	■	■	■	■	■	■	■	■	■		
30	■	■	■	■	■	■	■	■	■	■	■	
32	■	■	■	■	■	■	■	■	■	■	■	■
40	■	■	■	■	■	■	■	■	■	■	■	
50	■	■	■	■	■	■	■	■	■	■	■	
60	■	■	■	■	■	■	■	■	■	■	■	
63	■	■	■	■	■	■	■	■	■	■	■	
70	■	■	■	■	■	■	■	■	■	■	■	
80	■	■	■	■	■	■	■	■	■	■	■	
90	■	■	■	■	■	■	■	■	■	■	■	
100	■	■	■	■	■	■	■	■	■	■	■	
120			■	■	■							
125	■	■	■	■	■							
140			■	■								
150	■	■	■	■								
160	■	■	■									
175			■									
180			■									
200			■									



[GFSM reg]: Surface Condition
Thickness: ground or fine milled
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 190 BHN
 Chemical composition:

C	Si	Mn	P	S
0.42	0.15	0.6	0	0
0.5	0.4	0.8	0.03	0.03



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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Precision Ground Flat Stock Metric, regular acc. to DIN 59350



Technical Properties

Unalloyed tool steel with excellent machining properties for unhardened parts e.g. fixture construction, due to its carbon proportion (0.45%) it can be hardened, but has a low depth of hardening. Shallow depth case-hardening steel with a hard surface and a tough core.

Working hardness: approx. 190 BHN (annealed) up to 54 HRC (surface hardness).



Applications

Mechanical engineering, construction materials, jigs, base plates, molding frames, small dies, hand tools, simple knives, sledges, pliers, forks, hatchets, axes, shears, screwdrivers, chisels.



AISI 1045 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/1045

via smartphone / tablet:



PREMIUM 1045 - PRECISION GROUND FLAT STOCK METRIC, REGULAR

TOOL STEEL

Length: 1,000 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS								
	4	5	6	8	10	12	15	16	20
	Available Dimensions [■]								
10					■				
12						■			
15							■		
16								■	
20	■	■	■	■	■	■	■	■	■
25	■	■	■	■	■	■	■	■	■
30	■	■	■	■	■	■	■	■	■
32	■	■	■	■	■	■	■	■	
40	■	■	■	■	■	■	■		
50	■	■	■	■	■	■			
60	■	■	■	■	■				
63	■	■	■	■					
70	■	■	■	■					
80	■	■	■						
90	■	■	■						
100	■	■	■						
125	■								



[GFSM reg]: Surface Condition

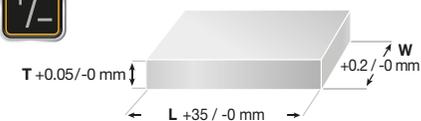
Thickness: ground or fine milled

Width: ground or fine milled

Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 190 BHN

Chemical composition:

C	Si	Mn	P	S
0.42	0.15	0.6	0	0
0.5	0.4	0.8	0.03	0.03



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.

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- according to your requirements!



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Precision Ground Flat Stock Metric, regular acc. to DIN 59350



Technical Properties

Unalloyed tool steel with excellent machining properties for unhardened parts e.g. fixture construction, due to its carbon proportion (0.45%) it can be hardened, but has a low depth of hardening. Shallow depth case-hardening steel with a hard surface and a tough core.

Working hardness: approx. 190 BHN (annealed) up to 54 HRC (surface hardness).



Applications

Mechanical engineering, construction materials, jigs, base plates, molding frames, small dies, hand tools, simple knives, sledges, pliers, forks, hatchets, axes, shears, screwdrivers, chisels.



AISI 1045 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/1045

via smartphone/tablet:



PREMIUM 2990 mod. - \$mart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

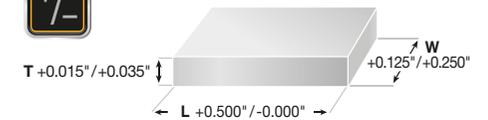
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
 Chemical composition: (+additives):

C	Cr	Mo	V
1.0	8.0	1.8	0.15
1.0	8.0	2.7	0.5



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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Technical Properties

An all-rounder amongst the cold work steels: high toughness, good pressure resistance, excellent compression strength, excellent wear and tempering resistance. It is secondary-hardened and has a good dimensional stability, good erosion quality and excellent nitridability.

Working hardness: approx. 57-63 HRC.



Applications

Blanking tools, stamping tools, precision cutting tools, dies, punches, thread rolling tools, cold pilger mandrels, plastic molds, cold rollings, cold extrusion tools, cold forming tools, deep drawing dies, woodworking tools, embossing tools, bending tools, machine knives, circular shear knives, machine parts.



AISI 2990 mod. – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/2990mod

via smartphone / tablet:



PREMIUM 2990 mod. - \$smart FLAT STOCK

TOOL STEEL

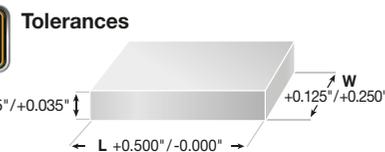
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 250 BHN
 Chemical composition: (+additives):

C	Cr	Mo	V
1.0	8.0	1.8	0.15
1.0	8.0	2.7	0.5



Don't see your exact dimension(s)?
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Technical Properties
 An all-rounder amongst the cold work steels: high toughness, good pressure resistance, excellent compression strength, excellent wear and tempering resistance. It is secondary-hardened and has a good dimensional stability, good erosion quality and excellent nitridability.
 Working hardness: approx. 57-63 HRC.



Applications
 Blanking tools, stamping tools, precision cutting tools, dies, punches, thread rolling tools, cold pilger mandrels, plastic molds, cold rollings, cold extrusion tools, cold forming tools, deep drawing dies, woodworking tools, embossing tools, bending tools, machine knives, circular shear knives, machine parts.



AISI 2990 mod. – all at a glance!
 Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/2990mod

via smartphone/tablet:

Toolox 33
 Toolox 44
 W1
 1018 / A36
 1045
 2990 mod.

PREMIUM 2990 mod. - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

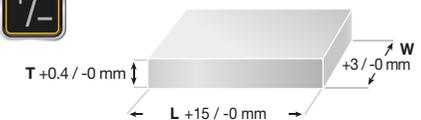
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
 Chemical composition: (+additives):

C	Cr	Mo	V
1.0	8.0	1.8	0.15
1.0	8.0	2.7	0.5



Don't see your exact dimension(s)?

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Technical Properties

An all-rounder amongst the cold work steels: high toughness, good pressure resistance, excellent compression strength, excellent wear and tempering resistance. It is secondary-hardened and has a good dimensional stability, good erosion quality and excellent nitridability.

Working hardness: approx. 57-63 HRC.



Applications

Blanking tools, stamping tools, precision cutting tools, dies, punches, thread rolling tools, cold pilger mandrels, plastic molds, cold rollings, cold extrusion tools, cold forming tools, deep drawing dies, woodworking tools, embossing tools, bending tools, machine knives, circular shear knives, machine parts.



AISI 2990 mod. – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/2990mod

via smartphone / tablet:



PREMIUM 2990 mod. - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

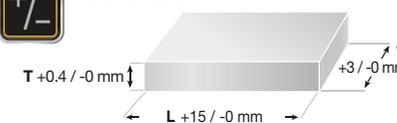
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
 Chemical composition: (+additives):

C	Cr	Mo	V
1.0	8.0	1.8	0.15
1.0	8.0	2.7	0.5



Don't see your exact dimension(s)?

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Technical Properties

An all-rounder amongst the cold work steels: high toughness, good pressure resistance, excellent compression strength, excellent wear and tempering resistance. It is secondary-hardened and has a good dimensional stability, good erosion quality and excellent nitridability.
 Working hardness: approx. 57-63 HRC.



Applications

Blanking tools, stamping tools, precision cutting tools, dies, punches, thread rolling tools, cold pilger mandrels, plastic molds, cold rollings, cold extrusion tools, cold forming tools, deep drawing dies, woodworking tools, embossing tools, bending tools, machine knives, circular shear knives, machine parts.



AISI 2990 mod. – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/2990mod

via smartphone / tablet:



Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.



WATCH THE MAKING OF THE 11TH MOTIF FOR CALENDAR 2016 / 2019



Toolox 33

Toolox 44

W1

1018 /
A36

1045

2990 mod.

ABRAMS - SUPERIOR!

ABRAMS!
PREMIUM STEEL

PREMIUM 420 ESR - \$smart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

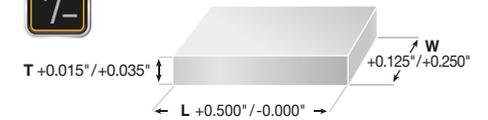
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 241 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.36	0	0	0	0	12.5
0.42	1.0	1.0	0.03	0.03	14.5



Don't see your exact dimension(s)?

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Technical Properties

Corrosion-resistant cold work steel and plastic mold steel, good machinability, good hardenability and excellent polishing properties. Low distortion through-hardening steel with high hardness and high wear resistance. The ESR (Electro Slag Remelted Steel) steel production process provides for maximum polishability.

Working hardness: 50-55 HRC.



Applications

Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.



AISI 420 ESR – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/420ESR

via smartphone / tablet:



PREMIUM 420 ESR - \$smart FLAT STOCK

TOOL STEEL

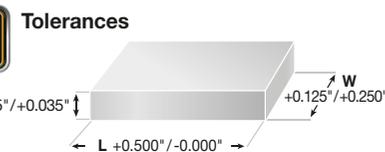
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Standard values
 Delivery condition: maximum 241 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.36	0	0	0	0	12.5
0.42	1.0	1.0	0.03	0.03	14.5



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 abrams-steel.com/420ESR-11



Technical Properties
 Corrosion-resistant cold work steel and plastic mold steel, good machinability, good hardenability and excellent polishing properties. Low distortion through-hardening steel with high hardness and high wear resistance. The ESR (Electro Slag Remelted Steel) steel production process provides for maximum polishability.
 Working hardness: 50-55 HRC.



Applications
 Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.



AISI 420 ESR – all at a glance!
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/420ESR

via smartphone/tablet:

Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.

420 ESR

PREMIUM 420 ESR - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

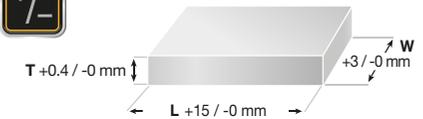
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 241 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.36	0	0	0	0	12.5
0.42	1.0	1.0	0.03	0.03	14.5



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
 Custom orders on request
 - according to your requirements!



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Direct access to our online shop

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Technical Properties

Corrosion-resistant cold work steel and plastic mold steel, good machinability, good hardenability and excellent polishing properties. Low distortion through-hardening steel with high hardness and high wear resistance. The ESR (Electro Slag Remelted Steel) steel production process provides for maximum polishability.

Working hardness: 50-55 HRC.



Applications

Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.



AISI 420 ESR – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/420ESR

via smartphone / tablet:



PREMIUM 420 ESR - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

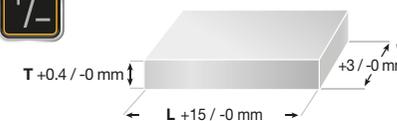
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 241 BHN

Chemical composition:

C	Si	Mn	P	S	Cr
0.36	0	0	0	0	12.5
0.42	1.0	1.0	0.03	0.03	14.5



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.

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- according to your requirements!



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Direct access to our online shop

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Technical Properties

Corrosion-resistant cold work steel and plastic mold steel, good machinability, good hardenability and excellent polishing properties. Low distortion through-hardening steel with high hardness and high wear resistance. The ESR (Electro Slag Remelted Steel) steel production process provides for maximum polishability.

Working hardness: 50-55 HRC.



Applications

Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.

Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.

420 ESR

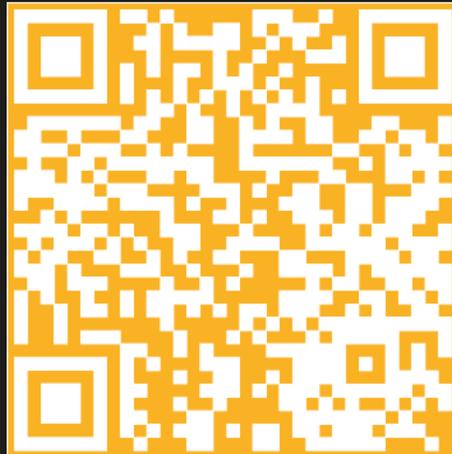


AISI 420 ESR – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/420ESR

via smartphone/tablet:





WATCH THE MAKING OF THE CALENDAR 2019 / 2022

PREMIUM 420 LC - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 500 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS					
	6.2	8.2	10.3	15.3	20.3	25.3
	Available Dimensions [■]					
20.3	■	■	■			
25.3	■	■	■	■		
30.3	■	■	■	■	■	
40.3	■	■	■	■	■	■
50.3	■	■	■	■	■	
60.3	■	■	■	■	■	
80.3	■	■	■			
100.3	■	■	■			
125.3	■	■				
150.3	■					



[GFSM O/S]: Surface Condition

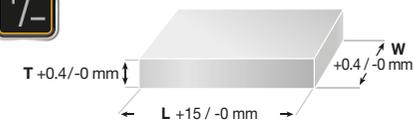
Thickness: ground or fine milled

Width: ground or fine milled

Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN

Chemical composition: (+additives):

C	Si	Mn	S	Cr	Ni
0.05	0.2	0.9	0.12	12.5	0.4
0.05	0.3	1.0	0.12	13.0	0.45



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.

Custom orders on request

- according to your requirements!



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Technical Properties

Prehardened, corrosion resistant plastic mold steel.
Magnetizable, excellent machinability and good weldability.
Resistant to humid conditions. Further heat treatment is not intended.
Working hardness: approx. 33 HRC (reference value for delivery condition).



Applications

Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembly parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.

Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.

420 ESR

420 LC



AISI 420 LC – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/420LC

via smartphone / tablet:



PREMIUM 420 LC - \$mart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

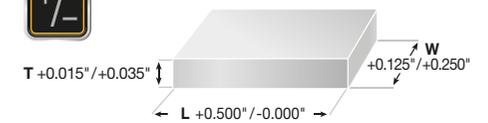
WIDTH	THICKNESS																					
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	
	Available Dimensions [■]																					
1"	■	■	■	■	■	■	■	■	■	■	■											
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■										
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■									
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■								
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■							
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■						
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■					
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN
 Chemical composition: (+additives):

C	Si	Mn	S	Cr	Ni
0.05	0.2	0.9	0.12	12.5	0.4
0.05	0.3	1.0	0.12	13.0	0.45



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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Technical Properties

Prehardened, corrosion resistant plastic mold steel.
 Magnetizable, excellent machinability and good weldability.
 Resistant to humid conditions. Further heat treatment is not intended.
 Working hardness: approx. 33 HRC (reference value for delivery condition).



Applications

Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembly parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.



AISI 420 LC – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/420LC

via smartphone / tablet:



PREMIUM 420 LC - \$smart FLAT STOCK

TOOL STEEL

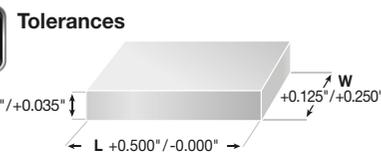
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS																					
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 330 BHN
 Chemical composition: (+additives):

C	Si	Mn	S	Cr	Ni
0.05	0.2	0.9	0.12	12.5	0.4
0.05	0.3	1.0	0.12	13.0	0.45



Don't see your exact dimension(s)?
 Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Direct access to our online shop
 abrams-steel.com/420LC-11



Technical Properties
 Prehardened, corrosion resistant plastic mold steel.
 Magnetizable, excellent machinability and good weldability.
 Resistant to humid conditions. Further heat treatment is not intended.
 Working hardness: approx. 33 HRC (reference value for delivery condition).



Applications
 Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembly parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.



AISI 420 LC – all at a glance!
 Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/420LC

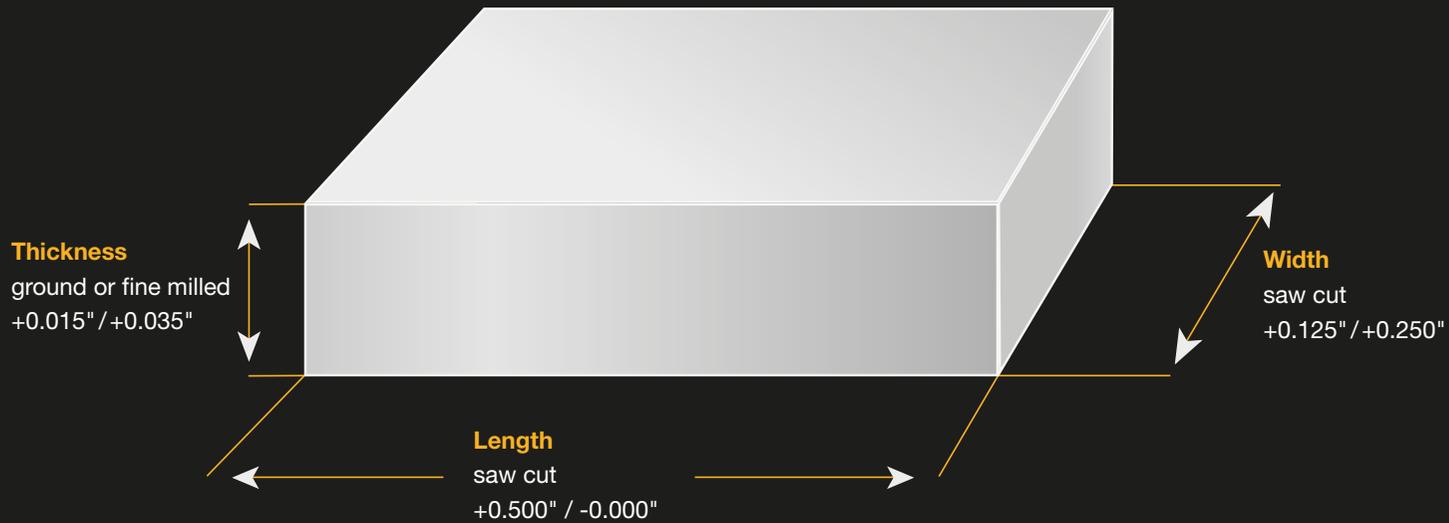
via smartphone/tablet:



Toolox 33
 Toolox 44
 W1
 1018 / A36
 1045
 2990 mod.
 420 ESR
 420 LC

Smart Flat Stock: \$AVES YOU TIME - \$AVES YOU MONEY

Always close to your final dimensions.

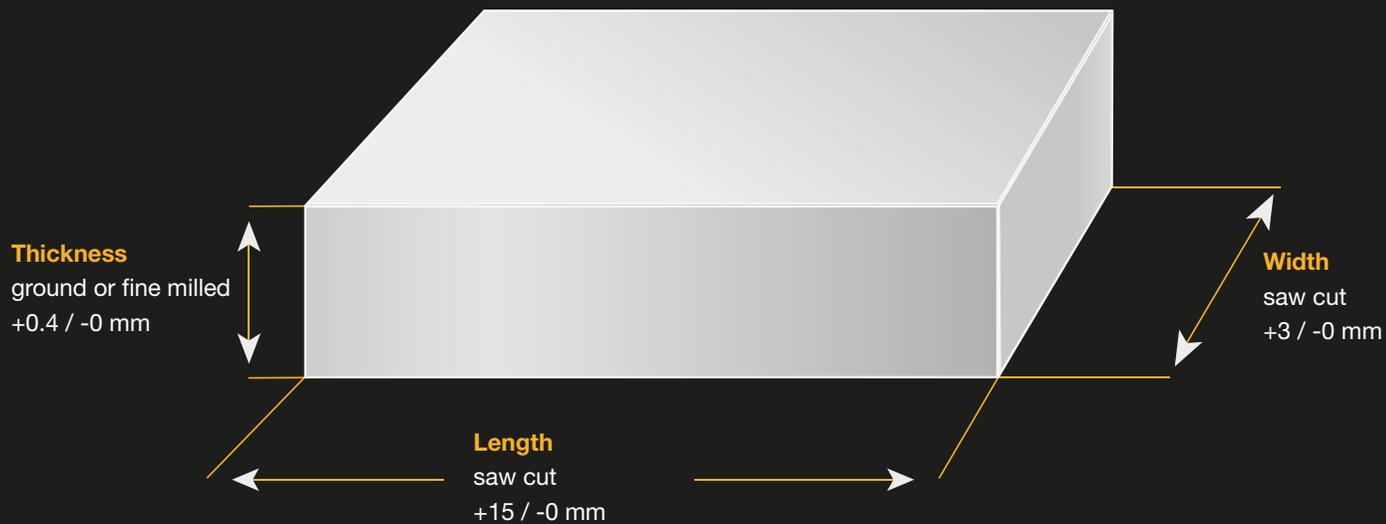


NEW TO THE AMERICAN MARKET !

METRIC

Smart Flat Stock: SAVES YOU TIME - SAVES YOU MONEY

Always close to your final dimensions.



Toolox 33

Toolox 44

W1

1018 /
A36

1045

2990 mod.

420 ESR

420 LC

PREMIUM 420 LC - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

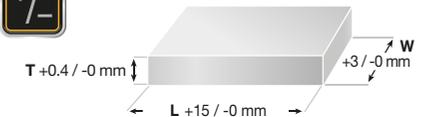
WIDTH	THICKNESS																	
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]																	
33	■	■	■	■	■	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN
 Chemical composition: (+additives):

C	Si	Mn	S	Cr	Ni
0.05	0.2	0.9	0.12	12.5	0.4
0.05	0.3	1.0	0.12	12.5	0.45



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Technical Properties

Prehardened, corrosion resistant plastic mold steel.
 Magnetizable, excellent machinability and good weldability.
 Resistant to humid conditions. Further heat treatment is not intended.
 Working hardness: approx. 33 HRC (reference value for delivery condition).



Applications

Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembly parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.



AISI 420 LC – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
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via smartphone / tablet:



PREMIUM 420 LC - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS																	
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
33	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

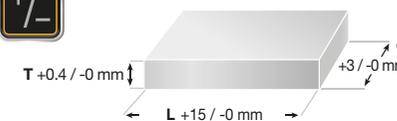
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN

Chemical composition: (+additives):

C	Si	Mn	S	Cr	Ni
0.05	0.2	0.9	0.12	12.5	0.4
0.05	0.3	1.0	0.12	12.5	0.45



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Technical Properties

Prehardened, corrosion resistant plastic mold steel.
Magnetizable, excellent machinability and good weldability.
Resistant to humid conditions. Further heat treatment is not intended.
Working hardness: approx. 33 HRC (reference value for delivery condition).



Applications

Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembly parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.



AISI 420 LC – all at a glance!

Datasheets, online shop,
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via smartphone/tablet:



Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.

420 ESR

420 LC

PREMIUM 420FM - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 500 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS						
	6.2	8.2	10.3	15.3	20.3	25.3	30.3
	Available Dimensions [■]						
20.3	■	■	■	■	■		
25.3	■	■	■	■	■	■	
30.3	■	■	■	■	■	■	■
40.3	■	■	■	■	■	■	■
50.3	■	■	■	■	■		
60.3	■	■	■	■	■		
80.3	■	■	■				
100.3	■	■	■				
125.3	■	■					
150.3	■						

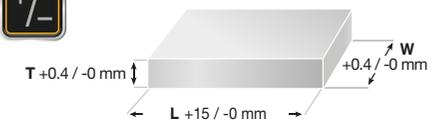


[GFSM O/S]: Surface Condition

Thickness: ground or fine milled
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.28	0	0	0	0.05	15.0	0
0.38	1.0	1.4	0.03	0.1	17.0	1.0



Don't see your exact dimension(s)?

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Technical Properties

Pre-hardened, corrosion-resistant plastic mold steel. Magnetizable with good machinability. Resistant to humid conditions. Further heat treatment is not intended. Working hardness: approx. 33 HRC (delivery condition) up to 48 HRC.



Applications

Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembly parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.



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via smartphone / tablet:



PREMIUM 420FM - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 1,000 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS			
	8.2	10.3	15.3	20.3
	Available Dimensions [■]			
20.3	■	■	■	■
25.3	■	■	■	■
30.3	■	■	■	
40.3	■	■		
50.3	■	■		
60.3	■			



[GFSM O/S]: Surface Condition

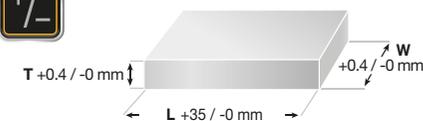
Thickness: ground or fine milled

Width: ground or fine milled

Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.28	0	0	0	0.05	15.0	0
0.38	1.0	1.4	0.03	0.1	17.0	1.0



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Technical Properties

Pre-hardened, corrosion-resistant plastic mold steel. Magnetizable with good machinability. Resistant to humid conditions. Further heat treatment is not intended.

Working hardness: approx. 33 HRC (delivery condition) up to 48 HRC.



Applications

Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembly parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.



AISI 420FM – all at a glance!

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via smartphone/tablet:



Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.

420 ESR

420 LC

420FM

PREMIUM 420FM - \$mart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

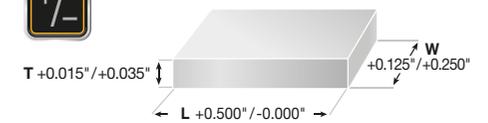
WIDTH	THICKNESS												
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"
	Available Dimensions [■]												
1"	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.28	0	0	0	0.05	15.0	0
0.38	1.0	1.4	0.03	0.1	17.0	1.0



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Technical Properties

Pre-hardened, corrosion-resistant plastic mold steel. Magnetizable with good machinability. Resistant to humid conditions. Further heat treatment is not intended.
 Working hardness: approx. 33 HRC (delivery condition) up to 48 HRC.



Applications

Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembly parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.



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PREMIUM 420FM - \$smart FLAT STOCK

TOOL STEEL

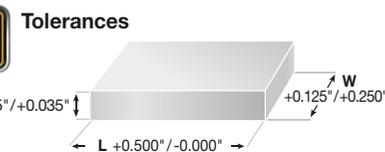
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS													
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	
	Available Dimensions [■]													
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 330 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.28	0	0	0	0.05	15.0	0
0.38	1.0	1.4	0.03	0.1	17.0	1.0



Don't see your exact dimension(s)?
 Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties
 Pre-hardened, corrosion-resistant plastic mold steel. Magnetizable with good machinability. Resistant to humid conditions. Further heat treatment is not intended.
 Working hardness: approx. 33 HRC (delivery condition) up to 48 HRC.



Applications
 Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembly parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.



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via smartphone/tablet:

Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.

420 ESR

420 LC

420FM

PREMIUM 420FM - \$mart FLAT STOCK METRIC

TOOL STEEL

Length: 300 mm

METRIC DIMENSIONS in mm

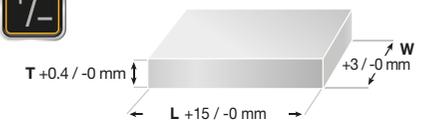
WIDTH	THICKNESS											
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3
	Available Dimensions [mm]											
33	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.28	0	0	0	0.05	15.0	0
0.38	1.0	1.4	0.03	0.1	17.0	1.0



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Technical Properties

Pre-hardened, corrosion-resistant plastic mold steel. Magnetizable with good machinability. Resistant to humid conditions. Further heat treatment is not intended.
 Working hardness: approx. 33 HRC (delivery condition) up to 48 HRC.



Applications

Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembly parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.



AISI 420FM – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/420FM

via smartphone / tablet:



PREMIUM 420FM - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS											
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3
	Available Dimensions [mm]											
33	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

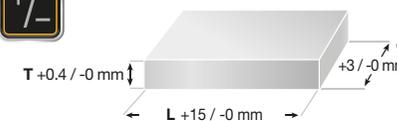
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 330 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.28	0	0	0	0.05	15.0	0
0.38	1.0	1.4	0.03	0.1	17.0	1.0



Don't see your exact dimension(s)?

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Technical Properties

Pre-hardened, corrosion-resistant plastic mold steel. Magnetizable with good machinability. Resistant to humid conditions. Further heat treatment is not intended.

Working hardness: approx. 33 HRC (delivery condition) up to 48 HRC.



Applications

Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembly parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.



AISI 420FM – all at a glance!

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via smartphone/tablet:



Toolox 33

Toolox 44

W1

1018 / A36

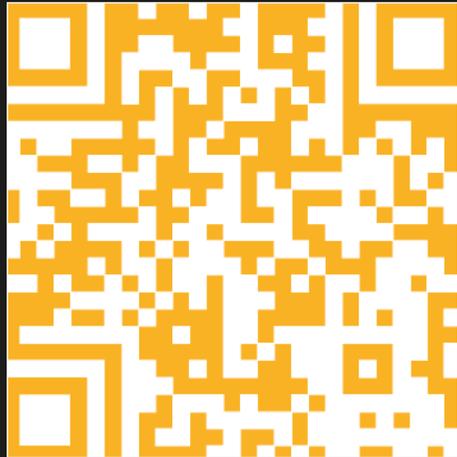
1045

2990 mod.

420 ESR

420 LC

420FM



WATCH THE MAKING OF THE 2ND MOTIF FOR CALENDAR 2019 / 2022



Toolox 33

Toolox 44

W1

1018 /
A36

1045

2990 mod.

420 ESR

420 LC

420FM

ABRAMS - PERFECTION FROM TIP TO TOE!

ABRAMS
PREMIUM STEEL



ABRAMS - THE POWER OF STEEL GRADE VARIETY!

ABRAMS!
PREMIUM STEEL

PREMIUM 5120 - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

TOOL STEEL

Length: 1,000 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS					
	8.2	10.3	12.3	15.3	16.3	20.3
	Available Dimensions [■]					
15.3				■		
20.3	■	■	■	■	■	■
25.3	■	■	■	■	■	■
30.3	■	■	■	■	■	■
32.3	■	■	■	■	■	
40.3	■	■	■			
50.3	■	■				
60.3	■					
70.3	■					



[GFSM O/S]: Surface Condition

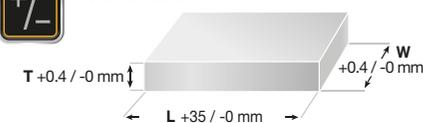
Thickness: ground or fine milled

Width: ground or fine milled

Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 217 BHN

Chemical composition:

C	Si	Mn	P	S	Cr
0.18	0.15	1.1	0	0	1.0
0.24	0.35	1.4	0.03	0.03	1.3



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Technical Properties

Cold work steel and plastic mold steel. High surface hardness with high core toughness. Excellent machinability, good cold hobbing and polishing properties. The even component strength is a result of the combination of hardened surface and high core toughness.

Surface working hardness: 58-60 HRC.



Applications

Mechanical engineering, jig construction, plant engineering, apparatus engineering, plastic processing, plastic molds, synthetic resin mold tools, base plates, bending bars, guide columns, gear parts, joint parts, shafts, gears, rods, bevel gears, crown wheels, piston pins, camshafts, bolts, pins, universal joints.

Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.

420 ESR

420 LC

420FM

5120



AISI 5120 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/5120

via smartphone / tablet:



PREMIUM 5120 - \$smart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

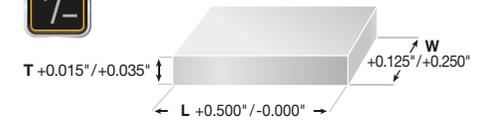
WIDTH	THICKNESS													
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
	Available Dimensions [■]													
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.18	0.15	1.1	0	0	1.0
0.24	0.35	1.4	0.03	0.03	1.3



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Technical Properties

Cold work steel and plastic mold steel. High surface hardness with high core toughness. Excellent machinability, good cold hobbing and polishing properties. The even component strength is a result of the combination of hardened surface and high core toughness.
 Surface working hardness: 58-60 HRC.



Applications

Mechanical engineering, jig construction, plant engineering, apparatus engineering, plastic processing, plastic molds, synthetic resin mold tools, base plates, bending bars, guide columns, gear parts, joint parts, shafts, gears, rods, bevel gears, crown wheels, piston pins, camshafts, bolts, pins, universal joints.



AISI 5120 – all at a glance!

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via smartphone / tablet:



PREMIUM 5120 - \$smart FLAT STOCK

TOOL STEEL

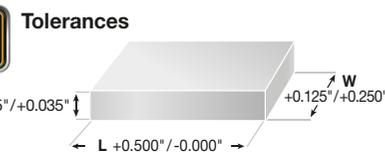
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS													
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
	Available Dimensions [■]													
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.18	0.15	1.1	0	0	1.0
0.24	0.35	1.4	0.03	0.03	1.3



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Technical Properties
 Cold work steel and plastic mold steel. High surface hardness with high core toughness. Excellent machinability, good cold hobbing and polishing properties. The even component strength is a result of the combination of hardened surface and high core toughness.
 Surface working hardness: 58-60 HRC.



Applications
 Mechanical engineering, jig construction, plant engineering, apparatus engineering, plastic processing, plastic molds, synthetic resin mold tools, base plates, bending bars, guide columns, gear parts, joint parts, shafts, gears, rods, bevel gears, crown wheels, piston pins, camshafts, bolts, pins, universal joints.



AISI 5120 – all at a glance!
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 ABRAMS STEEL GUIDE for alternatives:
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via smartphone/tablet:

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 Toolox 44
 W1
 1018 / A36
 1045
 2990 mod.
 420 ESR
 420 LC
 420FM
 5120

PREMIUM 5120 - Smart FLAT STOCK METRIC

TOOL STEEL

Length: 300 mm

METRIC DIMENSIONS in mm

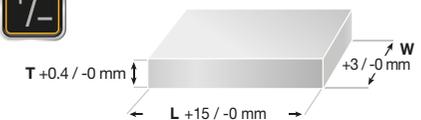
WIDTH	THICKNESS												
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[SmartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.18	0.15	1.1	0	0	1.0
0.24	0.35	1.4	0.03	0.03	1.3



Don't see your exact dimension(s)?

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 Surface working hardness: 58-60 HRC.



Applications

Mechanical engineering, jig construction, plant engineering, apparatus engineering, plastic processing, plastic molds, synthetic resin mold tools, base plates, bending bars, guide columns, gear parts, joint parts, shafts, gears, rods, bevel gears, crown wheels, piston pins, camshafts, bolts, pins, universal joints.



AISI 5120 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/5120

via smartphone / tablet:



PREMIUM 5120 - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

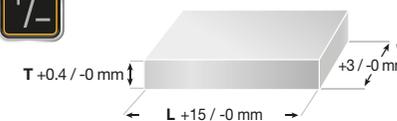
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 217 BHN

Chemical composition:

C	Si	Mn	P	S	Cr
0.18	0.15	1.1	0	0	1.0
0.24	0.35	1.4	0.03	0.03	1.3



Don't see your exact dimension(s)?

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Direct access to our online shop

abrams-steel.com/5120-13



Technical Properties

Cold work steel and plastic mold steel. High surface hardness with high core toughness. Excellent machinability, good cold hobbing and polishing properties. The even component strength is a result of the combination of hardened surface and high core toughness.

Surface working hardness: 58-60 HRC.



Applications

Mechanical engineering, jig construction, plant engineering, apparatus engineering, plastic processing, plastic molds, synthetic resin mold tools, base plates, bending bars, guide columns, gear parts, joint parts, shafts, gears, rods, bevel gears, crown wheels, piston pins, camshafts, bolts, pins, universal joints.



AISI 5120 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/5120

via smartphone/tablet:



Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.

420 ESR

420 LC

420FM

5120



WATCH THE MAKING OF THE 8TH MOTIF FOR CALENDAR 2016 / 2019



Toolox 33

Toolox 44

W1

1018 /
A36

1045

2990 mod.

420 ESR

420 LC

420FM

5120

ON REQUEST - SAW CUT - MILLED - GROUND!

ABRAMS |
PREMIUM STEEL

PREMIUM 52100 / L1 - \$smart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

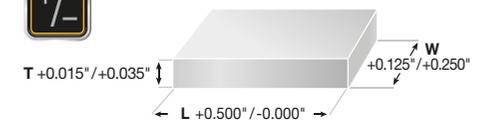
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 223 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.95	0.15	0.2	0	0	1.4	0	0
1.1	0.35	0.4	0.025	0.025	1.6	0.1	0.4



Don't see your exact dimension(s)?

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Technical Properties

An all-purpose medium alloyed cold work tool steel with high hardenability, but low depth of hardening, good wear resistance and toughness. This steel grade belongs to the group of AISI L1 (roller bearing and ball bearing steel).
 Working hardness: 60-64 HRC.



Applications

Drills, threading tools, center lathes, milling cutters, reamers, small die plates, pressure rollers, cold rollings, measuring tools, cold pilger rollings, cold pilger jaws, gauges, mandrels, woodworking tools, cold extrusion tools, flanging rollers, shear knives, roller bearings, ball bearings (medium to large size).



AISI 52100 / L1 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/52100-L1

via smartphone / tablet:



PREMIUM 52100 / L1 - \$smart FLAT STOCK

TOOL STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

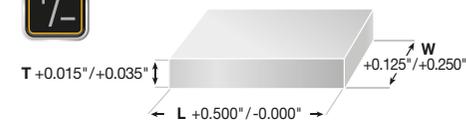
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 223 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.95	0.15	0.2	0	0	1.4	0	0
1.1	0.35	0.4	0.025	0.025	1.6	0.1	0.4



Don't see your exact dimension(s)?

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Technical Properties

An all-purpose medium alloyed cold work tool steel with high hardenability, but low depth of hardening, good wear resistance and toughness. This steel grade belongs to the group of AISI L1 (roller bearing and ball bearing steel).
 Working hardness: 60-64 HRC.



Applications

Drills, threading tools, center lathes, milling cutters, reamers, small die plates, pressure rollers, cold rollings, measuring tools, cold pilger rollings, cold pilger jaws, gauges, mandrels, woodworking tools, cold extrusion tools, flanging rollers, shear knives, roller bearings, ball bearings (medium to large size).



AISI 52100 / L1 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/52100-L1

via smartphone/tablet:



Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.

420 ESR

420 LC

420FM

5120

52100 / L1

PREMIUM 52100 / L1 - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

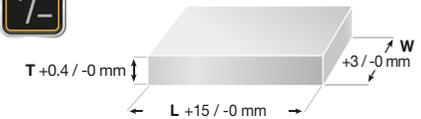
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 223 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.95	0.15	0.2	0	0	1.4	0	0
1.1	0.35	0.4	0.025	0.025	1.6	0.1	0.4



Don't see your exact dimension(s)?

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Technical Properties

An all-purpose medium alloyed cold work tool steel with high hardenability, but low depth of hardening, good wear resistance and toughness. This steel grade belongs to the group of AISI L1 (roller bearing and ball bearing steel).
 Working hardness: 60-64 HRC.



Applications

Drills, threading tools, center lathes, milling cutters, reamers, small die plates, pressure rollers, cold rollings, measuring tools, cold pilger rollings, cold pilger jaws, gauges, mandrels, woodworking tools, cold extrusion tools, flanging rollers, shear knives, roller bearings, ball bearings (medium to large size).



AISI 52100 / L1 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/52100-L1

via smartphone / tablet:



PREMIUM 52100 / L1 - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

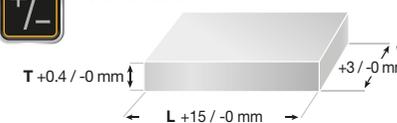
WIDTH	THICKNESS													
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3	
	Available Dimensions [■]													
33	■	■	■	■	■	■	■							
43	■	■	■	■	■	■	■	■						
53	■	■	■	■	■	■	■	■	■					
63	■	■	■	■	■	■	■	■	■	■				
73	■	■	■	■	■	■	■	■	■	■	■			
83	■	■	■	■	■	■	■	■	■	■	■	■		
93	■	■	■	■	■	■	■	■	■	■	■	■	■	
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 223 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.95	0.15	0.2	0	0	1.4	0	0
1.1	0.35	0.4	0.025	0.025	1.6	0.1	0.4



Don't see your exact dimension(s)?

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Technical Properties

An all-purpose medium alloyed cold work tool steel with high hardenability, but low depth of hardening, good wear resistance and toughness. This steel grade belongs to the group of AISI L1 (roller bearing and ball bearing steel).
 Working hardness: 60-64 HRC.



Applications

Drills, threading tools, center lathes, milling cutters, reamers, small die plates, pressure rollers, cold rollings, measuring tools, cold pilger rollings, cold pilger jaws, gauges, mandrels, woodworking tools, cold extrusion tools, flanging rollers, shear knives, roller bearings, ball bearings (medium to large size).



AISI 52100 / L1 - all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/52100-L1

via smartphone/tablet:



Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.

420 ESR

420 LC

420FM

5120

52100 / L1



WATCH THE MAKING OF THE 1ST MOTIF FOR CALENDAR 2016 / 2019



Toolox 33

Toolox 44

W1

1018 /
A36

1045

2990 mod.

420 ESR

420 LC

420FM

5120

52100 /
L1

PREMIUM 6F7 ESR - \$smart FLAT STOCK

TOOL STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

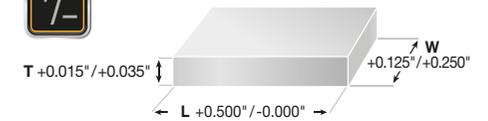
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 260 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.4	0.1	0.2	0	0	1.2	0.15	3.8
0.5	0.4	0.5	0.03	0.03	1.5	0.35	4.3



Don't see your exact dimension(s)?

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abrams-steel.com/6F7ESR-10



Technical Properties

Steel grade with focus on cold work, high toughness (nickel content), good through-hardening (even for large cross sections), as well as high impact strength and pressure resistance. Polishable, etchable and erodable. For very special purity and homogeneity we recommend AISI 6F7 ESR. Working hardness: 50-54 HRC.



Applications

Cutting tools, cutlery punches, embossing tools, bending tools, cold hobbing tools, pressure bars, billet shear knives, cold shear knives, plastic molds, hot press tools, light metal processing, heavy metal processing, drawing jaws, reinforcements.



AISI 6F7 ESR – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/6F7ESR

via smartphone / tablet:



PREMIUM 6F7 ESR - \$smart FLAT STOCK

TOOL STEEL

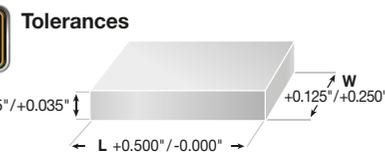
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 260 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.4	0.1	0.2	0	0	1.2	0.15	3.8
0.5	0.4	0.5	0.03	0.03	1.5	0.35	4.3



Don't see your exact dimension(s)?
 Any size is available in different thicknesses, widths and/or lengths.
 Custom orders on request
 - according to your requirements!



Contact us
 +1 (331) 234-9900
 sales@abrams-industries.com



Direct access to our online shop
 abrams-steel.com/6F7ESR-11



Technical Properties
 Steel grade with focus on cold work, high toughness (nickel content), good through-hardenableity (even for large cross sections), as well as high impact strength and pressure resistance. Polishable, etchable and erodible. For very special purity and homogeneity we recommend AISI 6F7 ESR.
 Working hardness: 50-54 HRC.



Applications
 Cutting tools, cutlery punches, embossing tools, bending tools, cold hobbing tools, pressure bars, billet shear knives, cold shear knives, plastic molds, hot press tools, light metal processing, heavy metal processing, drawing jaws, reinforcements.



AISI 6F7 ESR – all at a glance!
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/6F7ESR

via smartphone/tablet:

- Toolox 33
- Toolox 44
- W1
- 1018 / A36
- 1045
- 2990 mod.
- 420 ESR
- 420 LC
- 420FM
- 5120
- 52100 / L1
- 6F7 ESR

PREMIUM 6F7 ESR - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

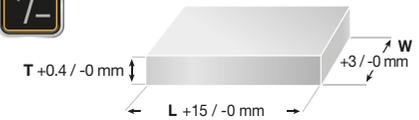
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 260 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.4	0.1	0.2	0	0	1.2	0.15	3.8
0.5	0.4	0.5	0.03	0.03	1.5	0.35	4.3



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
 Custom orders on request
 - according to your requirements!



Contact us

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sales@abrams-industries.com



Direct access to our online shop

abrams-steel.com/6F7ESR-12



Technical Properties

Steel grade with focus on cold work, high toughness (nickel content), good through-hardening (even for large cross sections), as well as high impact strength and pressure resistance. Polishable, etchable and erodible. For very special purity and homogeneity we recommend AISI 6F7 ESR. Working hardness: 50-54 HRC.



Applications

Cutting tools, cutlery punches, embossing tools, bending tools, cold hobbing tools, pressure bars, billet shear knives, cold shear knives, plastic molds, hot press tools, light metal processing, heavy metal processing, drawing jaws, reinforcements.



AISI 6F7 ESR – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/6F7ESR

via smartphone / tablet:



PREMIUM 6F7 ESR - \$smart FLAT STOCK METRIC

TOOL STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

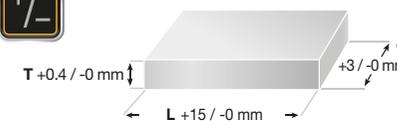
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 260 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.4	0.1	0.2	0	0	1.2	0.15	3.8
0.5	0.4	0.5	0.03	0.03	1.5	0.35	4.3



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.

Custom orders on request

- according to your requirements!



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Direct access to our online shop

abrams-steel.com/6F7ESR-13



Technical Properties

Steel grade with focus on cold work, high toughness (nickel content), good through-hardenableity (even for large cross sections), as well as high impact strength and pressure resistance. Polishable, etchable and erodible. For very special purity and homogeneity we recommend AISI 6F7 ESR. Working hardness: 50-54 HRC.



Applications

Cutting tools, cutlery punches, embossing tools, bending tools, cold hobbing tools, pressure bars, billet shear knives, cold shear knives, plastic molds, hot press tools, light metal processing, heavy metal processing, drawing jaws, reinforcements.



AISI 6F7 ESR – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/6F7ESR

via smartphone/tablet:



Toolox 33

Toolox 44

W1

1018 / A36

1045

2990 mod.

420 ESR

420 LC

420FM

5120

52100 / L1

6F7 ESR



WATCH THE MAKING OF THE 10TH MOTIF FOR CALENDAR 2019 / 2022



USE UP TO 40% LESS MATERIAL WITH OUR \$MART FLAT STOCK!

ABRAMS!
PREMIUM STEEL

FLATS !

Below are our flats in different categories in imperial as well as metric sizes. Every item is available in different **thickness**, **width** and **length**. On request – specific to your needs!

IMPERIAL



Precision Ground Flat Stock, regular [GFS reg]

For example: 3/4" x 4" x 36" reg

- **Thickness** ground, tol. +/-0.001"
- **Width** ground or fine milled, tol. +0.005" / -0.000"
- **Length** milled or saw cut, tol. +0.125" / +0.500"



Precision Ground Flat Stock, oversize [GFS O/S]

For example: 3/4" x 4" x 36" O/S

- **Thickness** ground, tol. +0.010" / +0.015"
- **Width** ground or fine milled, tol. +0.010" / +0.015"
- **Length** milled or saw cut, tol. +0.125" / +0.500"



\$mart Flat Stock [\$mart] Standardized Precision Blanks

For example: 3/4" x 4" x 24"

- **Thickness** ground or fine milled, tol. +0.015" / +0.035"
- **Width** saw cut, tol. +0.125" / +0.250"
- **Length** saw cut, tol. +0.500" / -0.000"



EDM Block hardened [EDM]

For example: 1/2" x 4" x 4"

- **Thickness** ground or fine milled, tol. +0.010" / -0.000"
- Square dimension ground or fine milled, tol. min. +0.0125"
- Grain structure is perpendicular in relation to top & bottom.

METRIC



Precision Ground Flat Stock Metric, regular [GFSM reg] acc. to DIN* 59350

For example: 20.0 x 100.0 x 1,000 mm

- **Thickness** ground or fine milled, tol. +0.05 / -0 mm
 - **Width** ground or fine milled, tol. +0.2 / -0 mm
 - **Length** milled or saw cut, tol. +35 / -0 mm
- Exception: AISI 1045: **T** +0.25 / -0 mm; **W** +0.4 / -0 mm



Precision Ground Flat Stock Metric, oversize [GFSM O/S]

For example: 20.3 x 100.3 x 1,000 mm

- **Thickness** ground or fine milled, tol. +0.4 / -0 mm
- **Width** ground or fine milled, tol. +0.4 / -0 mm
- **Length** milled or saw cut, tol. +35 / -0 mm



\$mart Flat Stock Metric [\$martM] Standardized Precision Blanks Metric

For example: 20.3 x 103 x 600 mm

- **Thickness** ground or fine milled, tol. +0.4 / -0 mm
- **Width** saw cut, tol. +3 / -0 mm
- **Length** saw cut, tol. +15 / -0 mm



Hard Flat Metric [HardM] Hardened Standardized Blanks Metric

For example: 10.2 x 250 x 500 mm

- **Thickness** ground or fine milled, tol. +0.2 / -0 mm
- **Width** saw cut or sheared, tol. +10 / -0 mm
- **Length** saw cut or sheared, tol. +10 / -0 mm

Flatness tolerance: +0.2 / -0 mm across the item (aimed for)

*DIN: DEUTSCHE INDUSTRIE NORM (GERMAN INDUSTRY STANDARD) !

Precision ground flat stock is a bar with a sharp-edged, rectangular or square cross-section made of tool steel with finely machined, decarburization-free longitudinal surfaces. In Germany, it is standardized in DIN 59350. Precision ground flat stock is used primarily as a semi-finished product in machine, tool, fixture and mold construction.

For more details on our shapes see: us.abrams-industries.com/product-overview



ROUNDS !

Below are our rounds in different categories in imperial as well as metric sizes.

Any item is available in different **diameters** and / or **length**. On request – specific to your needs!

IMPERIAL



Drill Rod [DR] Precision Round Bars

For example: DR 3/4" x 36"

Turned, ground & polished (TGP)

- Tol. Dia. < 1/8": +/-0.0003", L +0.125" / -0.000"
- Tol. Dia. 1/8" to < 1/2": +/-0.0005", L +0.125" / -0.000"
- Tol. Dia. 1/2" to 2": +/-0.001", L +0.125" / -0.000"



Cold Finished Rounds [CF] Precision Round Bars

For example: CF 3/4" x 36"

Drawn, smooth turned, ground, or ground and polished

- Tol. Dia. < 1/2": +/-0.0015", L +tol. / -0.400"
- Tol. Dia. 1/2" to < 1-1/2": +/-0.0025", L +tol. / -0.400"
- Tol. Dia. 1-1/2" to 4": +/-0.004", L +tol. / -0.400"

These are maximum tolerances. For more exact tolerances call our sales team.



Decarb Free Rounds [DCF] Oversize Round Bars

For example: DCF 3/4" x 36"

Peeled or rough-turned

- Tol. Dia. min. +0.010", L +tol. / -0.400"
- Exception: 4XX Series stainless steel, tol. Dia. +tol. / -0.000", L +tol. / -0.400"

These steel rounds are oversized to finish to nominal diameter.

METRIC



Drill Rod Metric [DRM] Precision Round Bars Metric

For example: DRM 10.0 mm x 914 mm (36")

Turned, ground & polished (TGP) - ISO h9

- Tol. Dia. ≤ 10.0 mm: +0 / -0.036 mm, L +tol.
- Tol. Dia. > 10.0 mm to 18.0 mm: +0 / -0.043 mm, L +tol.
- Tol. Dia. > 18.0 mm to 25.0 mm: +0 / -0.052 mm, L +tol.

These are maximum tolerances. For more exact tolerances call our sales team.



Cold Finished Rounds Metric [CFM] Precision Round Bars Metric

For example: CFM 10.0 mm x 914 mm (36")

Drawn, smooth turned, ground, or ground and polished (ISO h9)

- Tol. Dia. ≤ 10.0 mm: +0 / -0.036 mm, L +tol.
- Tol. Dia. > 10.0 mm to 18.0 mm: +0 / -0.043 mm, L +tol.
- Tol. Dia. > 18.0 mm to 25.0 mm: +0 / -0.052 mm, L +tol.

These are maximum tolerances. For more exact tolerances call our sales team.

STEEL CATEGORIES !

Steel grades are classified by their **technical properties** and/or by their **intended use**.

For example: Cold work steel, hot work steel, plastic mold steel, high speed steel, corrosion resistant steel or case hardening steel.

Steel grades are often assigned to several classification groups.

For more details on our shapes see: us.abrams-industries.com/product-overview





WATCH THE MAKING OF
THE CATWALK MOTIF FOR
CALENDAR 2011 / 2013



ABRAMS PREMIUM HIGH SPEED STEEL!

ABRAMS!
PREMIUM STEEL

HIGH SPEED STEEL

STEEL GRADE - AISI

	GFS reg 18" , 36"	GFS O/S 18" , 36"	GFS reg 24"	GFSM reg 500 mm, 1,000 mm	GFSM O/S 500 mm, 1,000 mm	\$mart 12" , 24"	\$martM 300 mm, 600 mm	HardM 250 mm, 500 mm	EDM (hardened)	DR 36"	DRM 914 mm (36")	CF 18" , 36"	CFM 914 mm (36")	DCF 18" , 36"	Max. delivery hardness (annealed / pre-hardened) [BHN]	Delivery hardness (hardened) approx. [HRC]	Tensile strength (deliv. cond.) approx. [HRC]	Max. working hardness [KSI]	Cold Work Steel	Hot Work Steel	Plastic Mold Steel	High Speed Steel	Stainless Steel	Stainless Steel, corrosion resistant	Heat-Treatable Steel	Case Hardening Steel
PREMIUM HSS M2				✓	✓			✓						270	133.4	65	✓	✓	✓	✓						
PREMIUM HSS PM M4 HC				✓	✓									270	133.4	65	✓	✓	✓	✓						



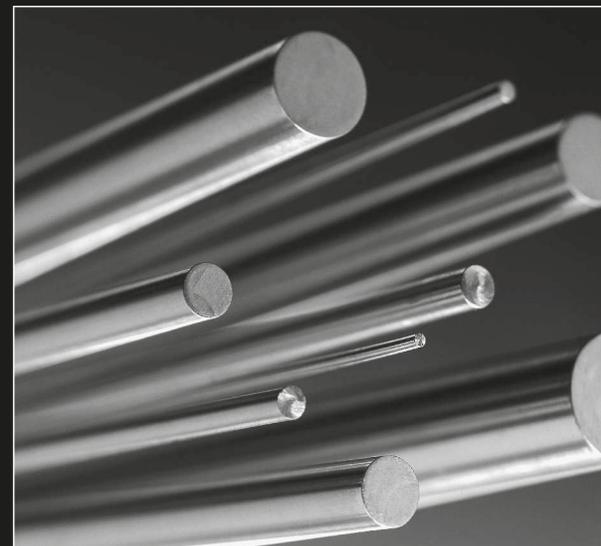
IMPERIAL

- Precision Ground Flat Stock, regular [GFS reg]
- Precision Ground Flat Stock, oversize [GFS O/S]
- \$mart Flat Stock [\$mart] - Standardized Precision Blanks
- EDM Block hardened [EDM]
- Drill Rod [DR] - Precision Round Bars
- Cold Finished Rounds [CF] - Precision Round Bars
- Decarb Free Rounds [DCF] - Oversize Round Bars



METRIC

- Precision Ground Flat Stock Metric, regular [GFSM reg] - acc. to DIN* 59350
 - Precision Ground Flat Stock Metric, oversize [GFSM O/S]
 - \$mart Flat Stock Metric [\$martM] - Standardized Precision Blanks Metric
 - Hard Flat Metric [HardM] - Hardened Standardized Blanks Metric
 - Drill Rod Metric [DRM] - Precision Round Bars Metric
 - Cold Finished Rounds Metric [CFM] - Precision Round Bars Metric
- *DIN: Deutsche Industrie Norm (German Industry Standard)



ABRAMS - THE POWER OF STEEL GRADE VARIETY!



PREMIUM HSS M2 - \$mart FLAT STOCK

HIGH SPEED STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

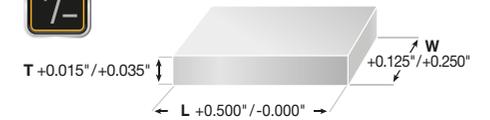
WIDTH	THICKNESS													
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
	Available Dimensions [■]													
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 270 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V	W
0.86	0	0	0	0	3.8	4.7	1.7	5.9
0.94	0.45	0.4	0.03	0.03	4.5	5.2	2.1	6.7



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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 - according to your requirements!



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Direct access to our online shop

abrams-steel.com/M2-10



Technical Properties

This high speed steel is the most frequently used among the high speed steels. Its composition allows it to be used for a wide range of applications. High impact toughness, good compression strength, excellent wear resistance.
 Working hardness: 62-65 HRC.



Applications

Machining tools, milling cutters, twist drills, screw taps, reamers, broaching tools, rotary knives, planer knives, gear shaper cutters, circular saw segments, metal saws, woodworking tools, screw dies, countersinks, chasers, cold extrusion punches, precision cutting tools, dies, punches, plastic molds with high wear resistance.



AISI M2 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/M2

via smartphone / tablet:



PREMIUM HSS M2 - \$mart FLAT STOCK

HIGH SPEED STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

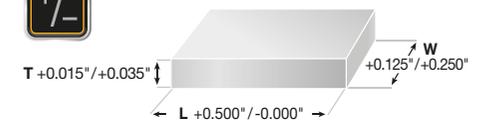
WIDTH	THICKNESS													
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
	Available Dimensions [■]													
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 270 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V	W
0.86	0	0	0	0	3.8	4.7	1.7	5.9
0.94	0.45	0.4	0.03	0.03	4.5	5.2	2.1	6.7



Don't see your exact dimension(s)?

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Technical Properties

This high speed steel is the most frequently used among the high speed steels. Its composition allows it to be used for a wide range of applications. High impact toughness, good compression strength, excellent wear resistance.
 Working hardness: 62-65 HRC.



Applications

Machining tools, milling cutters, twist drills, screw taps, reamers, broaching tools, rotary knives, planer knives, gear shaper cutters, circular saw segments, metal saws, woodworking tools, screw dies, countersinks, chasers, cold extrusion punches, precision cutting tools, dies, punches, plastic molds with high wear resistance.



AISI M2 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
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via smartphone/tablet:



HSS M2

PREMIUM HSS M2 - \$smart FLAT STOCK METRIC

HIGH SPEED STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

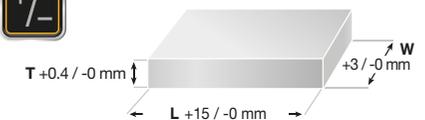
WIDTH	THICKNESS												
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 270 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V	W
0.86	0	0	0	0	3.8	4.7	1.7	5.9
0.94	0.45	0.4	0.03	0.03	4.5	5.2	2.1	6.7



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Technical Properties

This high speed steel is the most frequently used among the high speed steels. Its composition allows it to be used for a wide range of applications. High impact toughness, good compression strength, excellent wear resistance.
 Working hardness: 62-65 HRC.



Applications

Machining tools, milling cutters, twist drills, screw taps, reamers, broaching tools, rotary knives, planer knives, gear shaper cutters, circular saw segments, metal saws, woodworking tools, screw dies, countersinks, chasers, cold extrusion punches, precision cutting tools, dies, punches, plastic molds with high wear resistance.



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via smartphone / tablet:



PREMIUM HSS M2 - \$smart FLAT STOCK METRIC

HIGH SPEED STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition

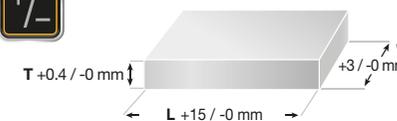
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 270 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V	W
0.86	0	0	0	0	3.8	4.7	1.7	5.9
0.94	0.45	0.4	0.03	0.03	4.5	5.2	2.1	6.7



Don't see your exact dimension(s)?

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Technical Properties

This high speed steel is the most frequently used among the high speed steels. Its composition allows it to be used for a wide range of applications. High impact toughness, good compression strength, excellent wear resistance.

Working hardness: 62-65 HRC.



Applications

Machining tools, milling cutters, twist drills, screw taps, reamers, broaching tools, rotary knives, planer knives, gear shaper cutters, circular saw segments, metal saws, woodworking tools, screw dies, countersinks, chasers, cold extrusion punches, precision cutting tools, dies, punches, plastic molds with high wear resistance.



AISI M2 – all at a glance!

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via smartphone / tablet:



HSS M2



ABRAMS PREMIUM DRILL ROD - PRECISION ROUND BARS (TGP)!

ABRAMS!
PREMIUM STEEL

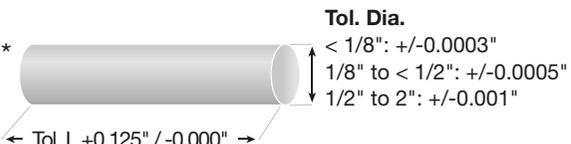
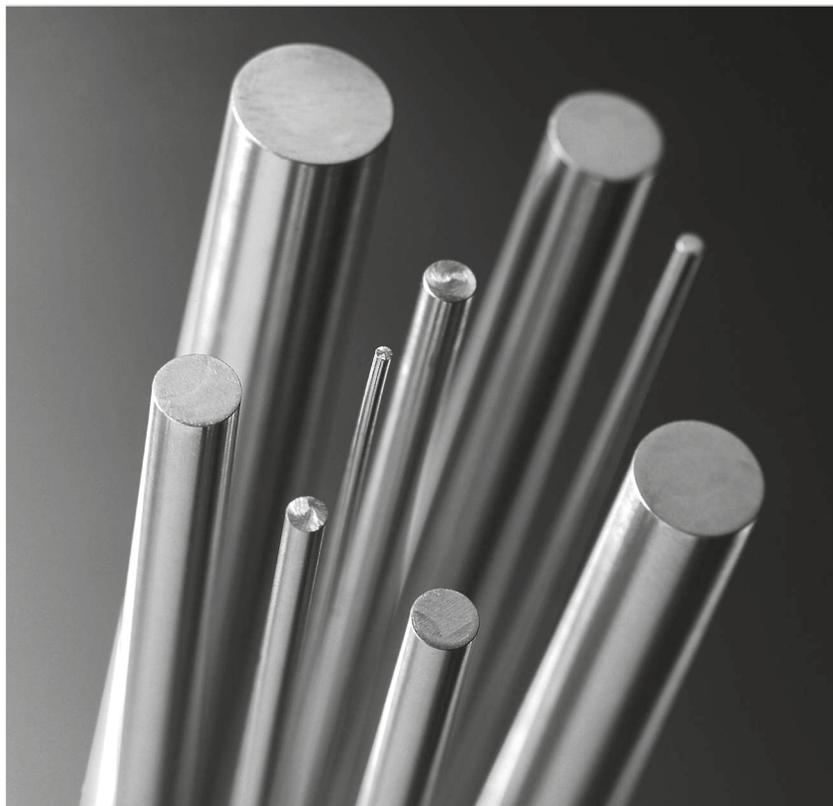
PREMIUM HSS M2 - DRILL ROD

HIGH SPEED STEEL

Length: **36"**

IMPERIAL DIAMETERS in inch

Available Diameters [●]	
1/16"	●
5/64"	●
3/32"	●
7/64"	●
1/8"	●
5/32"	●
3/16"	●
1/4"	●
5/16"	●
3/8"	●
7/16"	●
1/2"	●
5/8"	●
3/4"	●
1"	●



[DR]: Surface Condition
 Turned, ground & polished (TGP)



Tolerances

See below*



Standard values
 Delivery condition: maximum 270 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V	W
0.86	0	0	0	0	3.8	4.7	1.7	5.9
0.94	0.45	0.4	0.03	0.03	4.5	5.2	2.1	6.7



Don't see your exact dimension(s)?
 Any diameter is available in different lengths (e.g. round blanks).
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Technical Properties

This high speed steel is the most frequently used among the high speed steels. Its composition allows it to be used for a wide range of applications. High impact toughness, good compression strength, excellent wear resistance.
 Working hardness: 62-65 HRC.



Applications

Machining tools, milling cutters, twist drills, screw taps, reamers, broaching tools, rotary knives, planer knives, gear shaper cutters, circular saw segments, metal saws, woodworking tools, screw dies, countersinks, chasers, cold extrusion punches, precision cutting tools, dies, punches, plastic molds with high wear resistance.



AISI M2 – all at a glance!

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abrams-steel.com/M2

via smartphone/tablet:



HSS M2

PREMIUM HSS PM M4 HC - \$smart FLAT STOCK

HIGH SPEED STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

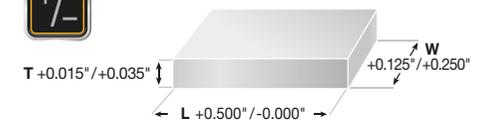
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 270 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V	W
1.25	0	0	0	0	3.8	4.2	3.7	5.2
1.4	0.45	0.4	0.03	0.03	4.5	5.0	4.2	6.0



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Technical Properties

High speed steel based on powder metallurgy with better wear and pressure resistance than AISI M2, due to a very clean and homogeneous microstructure with evenly spread carbides optimizing wear resistance.
 Working hardness: 62-65 HRC.



Applications

Stamping tools, precision cutting tools, machining tools, broaching tools, rotary knives, woodworking tools, gear shaper cutters, circular saw segments, metal saws, screw dies, countersinks, chasers, cold extrusion punches, deep drawing dies, plastic molds with high wear resistance.



AISI PM M4 HC – all at a glance!

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via smartphone / tablet:



PREMIUM HSS PM M4 HC - \$mart FLAT STOCK

HIGH SPEED STEEL

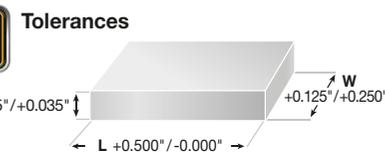
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 270 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V	W
1.25	0	0	0	0	3.8	4.2	3.7	5.2
1.4	0.45	0.4	0.03	0.03	4.5	5.0	4.2	6.0



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Technical Properties
 High speed steel based on powder metallurgy with better wear and pressure resistance than AISI M2, due to a very clean and homogeneous microstructure with evenly spread carbides optimizing wear resistance.
 Working hardness: 62-65 HRC.



Applications
 Stamping tools, precision cutting tools, machining tools, broaching tools, rotary knives, woodworking tools, gear shaper cutters, circular saw segments, metal saws, screw dies, countersinks, chasers, cold extrusion punches, deep drawing dies, plastic molds with high wear resistance.



AISI PM M4 HC – all at a glance!
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via smartphone/tablet:

HSS M2
 HSS PM M4 HC

PREMIUM HSS PM M4 HC - \$smart FLAT STOCK METRIC

HIGH SPEED STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

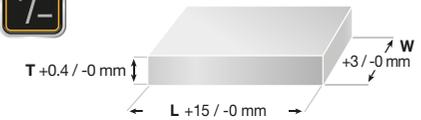
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 270 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V	W
1.25	0	0	0	0	3.8	4.2	3.7	5.2
1.4	0.45	0.4	0.03	0.03	4.5	5.0	4.2	6.0



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
 Custom orders on request
 - according to your requirements!



Contact us

+1 (331) 234-9900
sales@abrams-industries.com



Direct access to our online shop

abrams-steel.com/PMM4HC-12



Technical Properties

High speed steel based on powder metallurgy with better wear and pressure resistance than AISI M2, due to a very clean and homogeneous microstructure with evenly spread carbides optimizing wear resistance.
 Working hardness: 62-65 HRC.



Applications

Stamping tools, precision cutting tools, machining tools, broaching tools, rotary knives, woodworking tools, gear shaper cutters, circular saw segments, metal saws, screw dies, countersinks, chasers, cold extrusion punches, deep drawing dies, plastic molds with high wear resistance.



AISI PM M4 HC – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/PMM4HC

via smartphone / tablet:



PREMIUM HSS PM M4 HC - \$smart FLAT STOCK METRIC

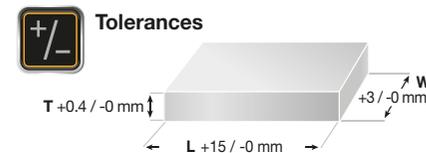
HIGH SPEED STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■

[\$smartM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 270 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V	W
1.25	0	0	0	0	3.8	4.2	3.7	5.2
1.4	0.45	0.4	0.03	0.03	4.5	5.0	4.2	6.0

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 - according to your requirements!

Contact us
 +1 (331) 234-9900
 sales@abrams-industries.com

Direct access to our online shop
 abrams-steel.com/PMM4HC-13

Technical Properties
 High speed steel based on powder metallurgy with better wear and pressure resistance than AISI M2, due to a very clean and homogeneous microstructure with evenly spread carbides optimizing wear resistance.
 Working hardness: 62-65 HRC.

Applications
 Stamping tools, precision cutting tools, machining tools, broaching tools, rotary knives, woodworking tools, gear shaper cutters, circular saw segments, metal saws, screw dies, countersinks, chasers, cold extrusion punches, deep drawing dies, plastic molds with high wear resistance.

AISI PM M4 HC – all at a glance!
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/PMM4HC

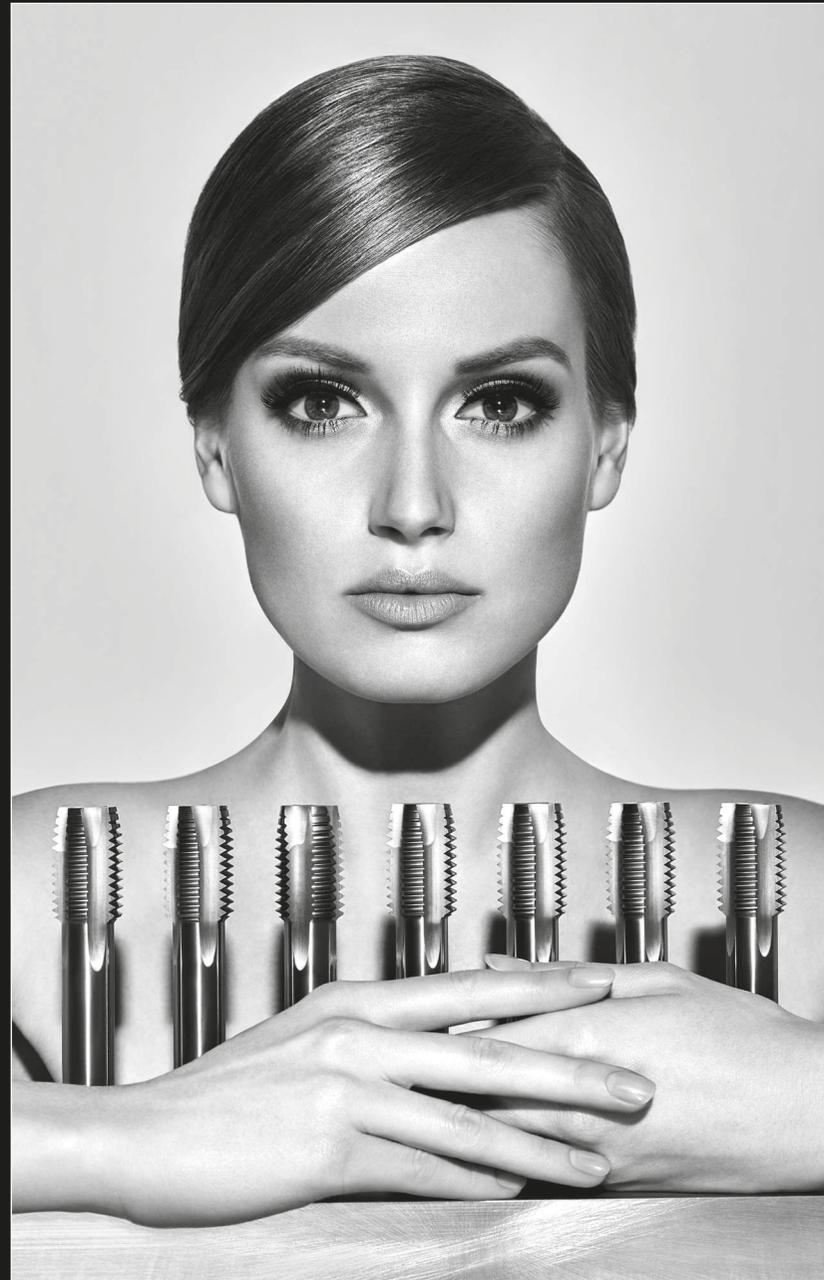
via smartphone / tablet:



HSS M2
 HSS PM
 M4 HC



WATCH THE MAKING OF THE 6TH MOTIF FOR CALENDAR 2016 / 2019



ABRAMS PREMIUM DRILL BITS!

ABRAMS!
PREMIUM STEEL

FLATS !

Below are our flats in different categories in imperial as well as metric sizes. Every item is available in different **thickness**, **width** and **length**. On request – specific to your needs!

IMPERIAL



Precision Ground Flat Stock, regular [GFS reg]

For example: 3/4" x 4" x 36" reg

- **Thickness** ground, tol. +/-0.001"
- **Width** ground or fine milled, tol. +0.005" / -0.000"
- **Length** milled or saw cut, tol. +0.125" / +0.500"



Precision Ground Flat Stock, oversize [GFS O/S]

For example: 3/4" x 4" x 36" O/S

- **Thickness** ground, tol. +0.010" / +0.015"
- **Width** ground or fine milled, tol. +0.010" / +0.015"
- **Length** milled or saw cut, tol. +0.125" / +0.500"



\$mart Flat Stock [\$mart] Standardized Precision Blanks

For example: 3/4" x 4" x 24"

- **Thickness** ground or fine milled, tol. +0.015" / +0.035"
- **Width** saw cut, tol. +0.125" / +0.250"
- **Length** saw cut, tol. +0.500" / -0.000"



EDM Block hardened [EDM]

For example: 1/2" x 4" x 4"

- **Thickness** ground or fine milled, tol. +0.010" / -0.000"
- Square dimension ground or fine milled, tol. min. +0.0125"
- Grain structure is perpendicular in relation to top & bottom.

METRIC



Precision Ground Flat Stock Metric, regular [GFSM reg] acc. to DIN* 59350

For example: 20.0 x 100.0 x 1,000 mm

- **Thickness** ground or fine milled, tol. +0.05 / -0 mm
 - **Width** ground or fine milled, tol. +0.2 / -0 mm
 - **Length** milled or saw cut, tol. +35 / -0 mm
- Exception: AISI 1045: **T** +0.25 / -0 mm; **W** +0.4 / -0 mm



Precision Ground Flat Stock Metric, oversize [GFSM O/S]

For example: 20.3 x 100.3 x 1,000 mm

- **Thickness** ground or fine milled, tol. +0.4 / -0 mm
- **Width** ground or fine milled, tol. +0.4 / -0 mm
- **Length** milled or saw cut, tol. +35 / -0 mm



\$mart Flat Stock Metric [\$martM] Standardized Precision Blanks Metric

For example: 20.3 x 103 x 600 mm

- **Thickness** ground or fine milled, tol. +0.4 / -0 mm
- **Width** saw cut, tol. +3 / -0 mm
- **Length** saw cut, tol. +15 / -0 mm



Hard Flat Metric [HardM] Hardened Standardized Blanks Metric

For example: 10.2 x 250 x 500 mm

- **Thickness** ground or fine milled, tol. +0.2 / -0 mm
- **Width** saw cut or sheared, tol. +10 / -0 mm
- **Length** saw cut or sheared, tol. +10 / -0 mm

Flatness tolerance: +0.2 / -0 mm across the item (aimed for)

*DIN: DEUTSCHE INDUSTRIE NORM (GERMAN INDUSTRY STANDARD) !

Precision ground flat stock is a bar with a sharp-edged, rectangular or square cross-section made of tool steel with finely machined, decarburization-free longitudinal surfaces. In Germany, it is standardized in DIN 59350. Precision ground flat stock is used primarily as a semi-finished product in machine, tool, fixture and mold construction.

For more details on our shapes see: us.abrams-industries.com/product-overview



ROUNDS !

Below are our rounds in different categories in imperial as well as metric sizes.

Any item is available in different **diameters** and / or **length**. On request – specific to your needs!

IMPERIAL



Drill Rod [DR] Precision Round Bars

For example: DR 3/4" x 36"

Turned, ground & polished (TGP)

- Tol. Dia. < 1/8": +/-0.0003", L +0.125" / -0.000"
- Tol. Dia. 1/8" to < 1/2": +/-0.0005", L +0.125" / -0.000"
- Tol. Dia. 1/2" to 2": +/-0.001", L +0.125" / -0.000"



Cold Finished Rounds [CF] Precision Round Bars

For example: CF 3/4" x 36"

Drawn, smooth turned, ground, or ground and polished

- Tol. Dia. < 1/2": +/-0.0015", L +tol. / -0.400"
- Tol. Dia. 1/2" to < 1-1/2": +/-0.0025", L +tol. / -0.400"
- Tol. Dia. 1-1/2" to 4": +/-0.004", L +tol. / -0.400"

These are maximum tolerances. For more exact tolerances call our sales team.



Decarb Free Rounds [DCF] Oversize Round Bars

For example: DCF 3/4" x 36"

Peeled or rough-turned

- Tol. Dia. min. +0.010", L +tol. / -0.400"
- Exception: 4XX Series stainless steel, tol. Dia. +tol. / -0.000", L +tol. / -0.400"

These steel rounds are oversized to finish to nominal diameter.

METRIC



Drill Rod Metric [DRM] Precision Round Bars Metric

For example: DRM 10.0 mm x 914 mm (36")

Turned, ground & polished (TGP) - ISO h9

- Tol. Dia. ≤ 10.0 mm: +0 / -0.036 mm, L +tol.
- Tol. Dia. > 10.0 mm to 18.0 mm: +0 / -0.043 mm, L +tol.
- Tol. Dia. > 18.0 mm to 25.0 mm: +0 / -0.052 mm, L +tol.

These are maximum tolerances. For more exact tolerances call our sales team.



Cold Finished Rounds Metric [CFM] Precision Round Bars Metric

For example: CFM 10.0 mm x 914 mm (36")

Drawn, smooth turned, ground, or ground and polished (ISO h9)

- Tol. Dia. ≤ 10.0 mm: +0 / -0.036 mm, L +tol.
- Tol. Dia. > 10.0 mm to 18.0 mm: +0 / -0.043 mm, L +tol.
- Tol. Dia. > 18.0 mm to 25.0 mm: +0 / -0.052 mm, L +tol.

These are maximum tolerances. For more exact tolerances call our sales team.

STEEL CATEGORIES !

Steel grades are classified by their **technical properties** and/or by their **intended use**.

For example: Cold work steel, hot work steel, plastic mold steel, high speed steel, corrosion resistant steel or case hardening steel.

Steel grades are often assigned to several classification groups.

For more details on our shapes see: us.abrams-industries.com/product-overview





WATCH THE MAKING OF THE
9TH MOTIF FOR CALENDAR
2019 / 2022



ABRAMS PREMIUM STAINLESS STEEL!

ABRAMS!
PREMIUM STEEL

STAINLESS STEEL,
corrosion resistant
acid resistant

STEEL GRADE - AISI

	GFS reg 18" , 36"	GFS O/S 18" , 36"	GFS reg 24"	GFSM reg 500 mm, 1,000 mm	GFSM O/S 500 mm, 1,000 mm	Smart 12" , 24"	\$martM 300 mm, 600 mm	HardM 250 mm, 500 mm	EDM (hardened)	DR 36"	DRM 914 mm (36")	CF 18" , 36"	CFM 914 mm (36")	DCF 18" , 36"	Max. delivery hardness (annealed / pre-hardened) [BHN]	Delivery hardness (hardened) approx. [HRC]	Tensile strength (deliv. cond.) approx. [KSI]	Max. working hardness [HRC]	Cold Work Steel	Hot Work Steel	Plastic Mold Steel	High Speed Steel	Stainless Steel	Stainless Steel, corrosion resistant	Heat-Treatable Steel	Case Hardening Steel
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PREMIUM 303					✓	✓					✓	✓		250		116.0	20					✓	✓		
PREMIUM 304					✓	✓					✓	✓		215		100.0	<20					✓	✓		
PREMIUM 314					✓	✓								223		109.5	<20					✓	✓		
PREMIUM 316L / 316					✓	✓					✓	✓		215		100.0	<20					✓	✓		
PREMIUM 316Ti					✓	✓						✓		215		100.0	<20					✓	✓		
PREMIUM 410					✓	✓					✓		✓	252		123.2	31		✓			✓	✓		
PREMIUM 420					✓	✓	✓	✓				✓	✓	241	50	118.2	55			✓		✓	✓		
PREMIUM 420 mod.					✓	✓						✓		252		123.2	47		✓			✓	✓		
PREMIUM 420RM					✓	✓								325		159.5	48			✓		✓	✓		
PREMIUM 430F					✓	✓								270		124.7	26					✓	✓		
PREMIUM 431					✓	✓					✓		✓	331		152.2	47	✓	✓			✓	✓		
PREMIUM 440B					✓	✓	✓	✓				✓		265	53	134.1	58	✓		✓		✓	✓		
PREMIUM 440C					✓	✓					✓		✓	285		139.9	60	✓				✓	✓		

IMPERIAL

- Precision Ground Flat Stock, regular [GFS reg]
- Precision Ground Flat Stock, oversize [GFS O/S]
- \$mart Flat Stock [\$mart] - Standardized Precision Blanks
- EDM Block hardened [EDM]
- Drill Rod [DR] - Precision Round Bars
- Cold Finished Rounds [CF] - Precision Round Bars
- Decarb Free Rounds [DCF] - Oversize Round Bars

METRIC

- Precision Ground Flat Stock Metric, regular [GFSM reg] - acc. to DIN* 59350
- Precision Ground Flat Stock Metric, oversize [GFSM O/S]
- \$mart Flat Stock Metric [\$martM] - Standardized Precision Blanks Metric
- Hard Flat Metric [HardM] - Hardened Standardized Blanks Metric
- Drill Rod Metric [DRM] - Precision Round Bars Metric
- Cold Finished Rounds Metric [CFM] - Precision Round Bars Metric
- *DIN: Deutsche Industrie Norm (German Industry Standard)

ABRAMS - THE POWER OF STEEL GRADE VARIETY!



PREMIUM 303 - \$mart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

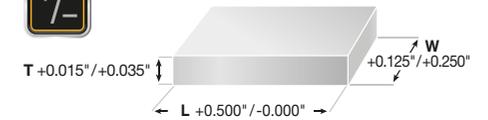
WIDTH	THICKNESS														
	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	Cu	N
0	0	0	0	0.15	17.0	8.0	0	0
0.1	1.0	2.0	0.045	0.35	19.0	10.0	1.0	0.11



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



Contact us

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 sales@abrams-industries.com



Direct access to our online shop

abrams-steel.com/303-10



Technical Properties

Corrosion resistant austenitic stainless chrome-nickel-steel with additional sulphur content that allows excellent milling, however, not forgeable, non-weldable (cracking), limited polishing properties. Average mechanical properties, non-magnetizable and conditionally acid resistant.
 Working hardness: 215-250 BHN (delivery condition).



Applications

Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



AISI 303 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/303

via smartphone/tablet:



PREMIUM 303 - \$mart FLAT STOCK

STAINLESS STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

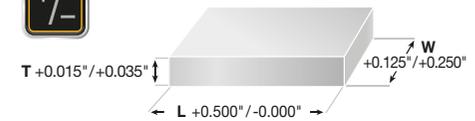
WIDTH	THICKNESS														
	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	Cu	N
0	0	0	0	0.15	17.0	8.0	0	0
0.1	1.0	2.0	0.045	0.35	19.0	10.0	1.0	0.11



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Direct access to our online shop

abrams-steel.com/303-11



Technical Properties

Corrosion resistant austenitic stainless chrome-nickel-steel with additional sulphur content that allows excellent milling, however, not forgeable, non-weldable (cracking), limited polishing properties. Average mechanical properties, non-magnetizable and conditionally acid resistant.
 Working hardness: 215-250 BHN (delivery condition).



Applications

Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



AISI 303 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/303

via smartphone/tablet:



PREMIUM 303 - \$mart FLAT STOCK METRIC

STAINLESS STEEL

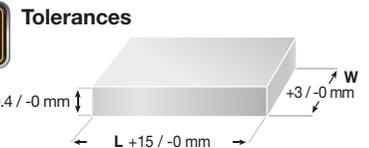
Length: **300 mm**

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Standard values
 Delivery condition: maximum 250 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	Cu	N
0	0	0	0	0.15	17.0	8.0	0	0
0.1	1.0	2.0	0.045	0.35	19.0	10.0	1.0	0.11



Don't see your exact dimension(s)?
 Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties
 Corrosion resistant austenitic stainless chrome-nickel-steel with additional sulphur content that allows excellent milling, however, not forgeable, non-weldable (cracking), limited polishing properties. Average mechanical properties, non-magnetizable and conditionally acid resistant.
 Working hardness: 215-250 BHN (delivery condition).



Applications
 Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



AISI 303 – all at a glance!
 Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/303

via smartphone / tablet:



PREMIUM 303 - \$smart FLAT STOCK METRIC

STAINLESS STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

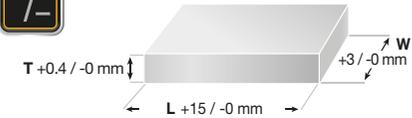
WIDTH	THICKNESS													
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3	
	Available Dimensions [■]													
33	■	■	■	■	■	■	■							
43	■	■	■	■	■	■	■	■						
53	■	■	■	■	■	■	■	■	■					
63	■	■	■	■	■	■	■	■	■	■				
73	■	■	■	■	■	■	■	■	■	■	■			
83	■	■	■	■	■	■	■	■	■	■	■	■		
93	■	■	■	■	■	■	■	■	■	■	■	■	■	
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 250 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Ni	Cu	N
0	0	0	0	0.15	17.0	8.0	0	0
0.1	1.0	2.0	0.045	0.35	19.0	10.0	1.0	0.11



Don't see your exact dimension(s)?

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Technical Properties

Corrosion resistant austenitic stainless chrome-nickel-steel with additional sulphur content that allows excellent milling, however, not forgeable, non-weldable (cracking), limited polishing properties. Average mechanical properties, non-magnetizable and conditionally acid resistant.
Working hardness: 215-250 BHN (delivery condition).



Applications

Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



AISI 303 – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
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via smartphone/tablet:



PREMIUM 303 - COLD FINISHED ROUNDS

STAINLESS STEEL

Length: **18"**

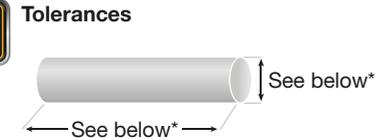
Length: **36"** **IMPERIAL DIAMETERS** in inch

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



[CF]: Surface Condition
 Drawn, smooth turned, ground, or ground and polished



Standard values
 Delivery condition: maximum 250 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	Cu	N
0	0	0	0	0.15	17.0	8.0	0	0
0.1	1.0	2.0	0.045	0.35	19.0	10.0	1.0	0.11



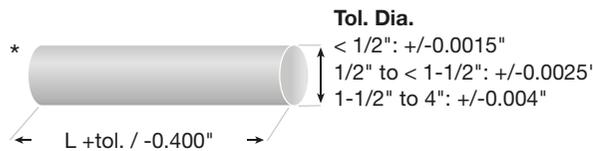
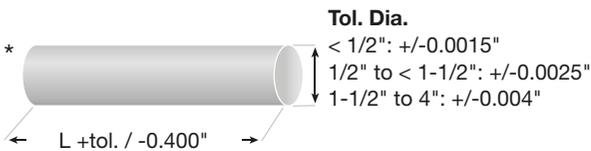
Don't see your exact dimension(s)?
 Any diameter is available in different lengths (e.g. round blanks).
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[18"] - abrams-steel.com/303-19
[36"] - abrams-steel.com/303-20



Technical Properties
 Corrosion resistant austenitic stainless chrome-nickel-steel with additional sulphur content that allows excellent milling, however, not forgeable, non-weldable (cracking), limited polishing properties. Average mechanical properties, non-magnetizable and conditionally acid resistant.
 Working hardness: 215-250 BHN (delivery condition).



Applications
 Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



AISI 303 – all at a glance!
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/303

via smartphone / tablet:



PREMIUM 303 - COLD FINISHED ROUNDS METRIC

STAINLESS STEEL

Length: 914 mm (36")

METRIC DIAMETERS in mm

Available Diameters [●]	
4.0	●
5.0	●
6.0	●
8.0	●
10.0	●
12.0	●
15.0	●
16.0	●
20.0	●
25.0	●

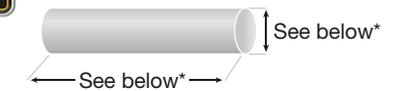


[CFM]: Surface Condition

Drawn, smooth turned, ground, or ground and polished (ISO h9)



Tolerances



Standard values

Delivery condition: maximum 250 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Ni	Cu	N
0	0	0	0	0.15	17.0	8.0	0	0
0.1	1.0	2.0	0.045	0.35	19.0	10.0	1.0	0.11



Don't see your exact dimension(s)?

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Technical Properties

Corrosion resistant austenitic stainless chrome-nickel-steel with additional sulphur content that allows excellent milling, however, not forgeable, non-weldable (cracking), limited polishing properties. Average mechanical properties, non-magnetizable and conditionally acid resistant.
Working hardness: 215-250 BHN (delivery condition).



Applications

Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



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WATCH THE MAKING OF THE 7TH MOTIF FOR CALENDAR 2013 / 2016



ABRAMS PREMIUM CORROSION RESISTANT STEEL!

ABRAMS!
PREMIUM STEEL

PREMIUM 304 - \$mart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

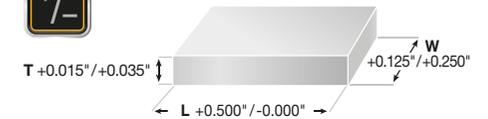
WIDTH	THICKNESS														
	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	N
0	0	0	0	0	17.5	8.0	0
0.07	1.0	2.0	0.045	0.015	19.5	10.5	0.11



Don't see your exact dimension(s)?

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Technical Properties

Corrosion resistant austenitic stainless chrome-nickel-steel with good processability and attractive appearance (ground-high-gloss polished). It has excellent deep drawing properties, is weldable and wear resistant but non-magnetizable and limited machining properties. Average mechanical properties, and conditionally acid resistant.

Working hardness: 195-215 BHN (delivery condition).



Applications

Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



AISI 304 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/304

via smartphone/tablet:



PREMIUM 304 - \$mart FLAT STOCK

STAINLESS STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

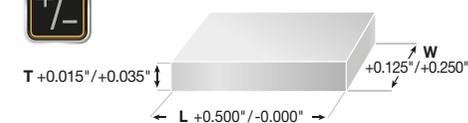
WIDTH	THICKNESS														
	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	N
0	0	0	0	0	17.5	8.0	0
0.07	1.0	2.0	0.045	0.015	19.5	10.5	0.11



Don't see your exact dimension(s)?

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Technical Properties

Corrosion resistant austenitic stainless chrome-nickel-steel with good processability and attractive appearance (ground-high-gloss polished). It has excellent deep drawing properties, is weldable and wear resistant but non-magnetizable and limited machining properties. Average mechanical properties, and conditionally acid resistant.
 Working hardness: 195-215 BHN (delivery condition).



Applications

Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



AISI 304 – all at a glance!

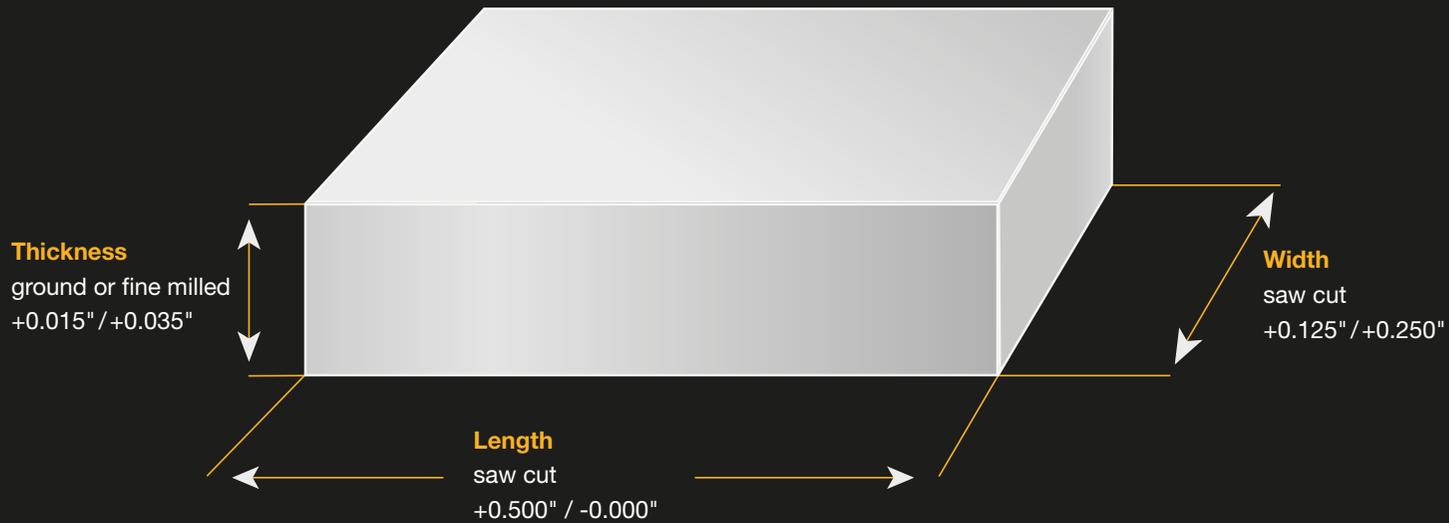
Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
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via smartphone / tablet:



Smart Flat Stock: SAVES YOU TIME - SAVES YOU MONEY

Always close to your final dimensions.

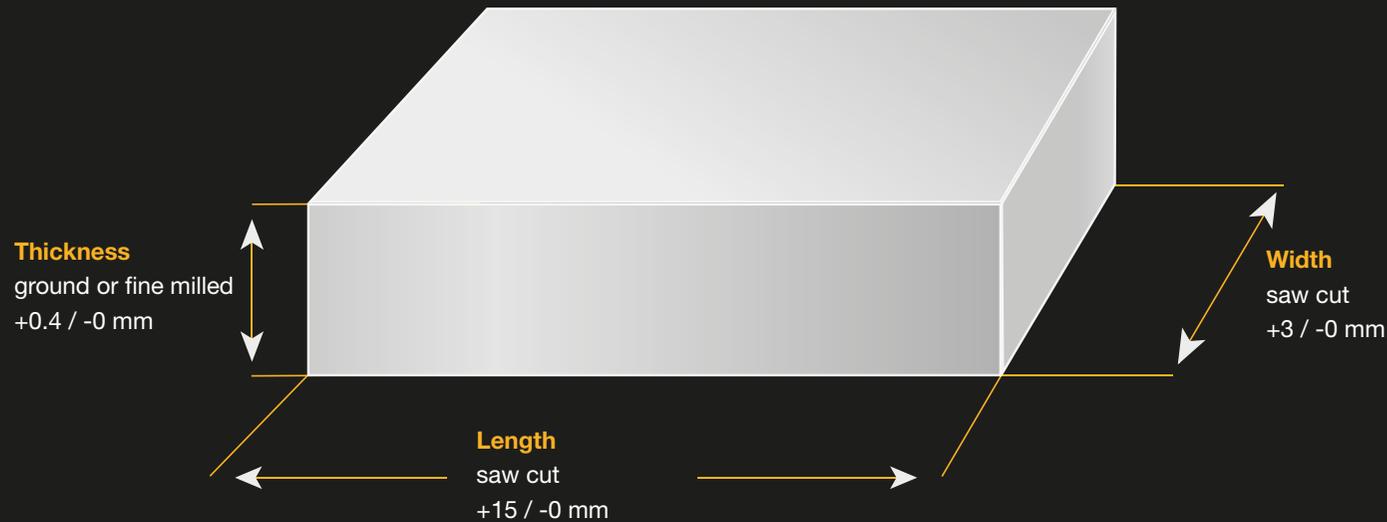


NEW TO THE AMERICAN MARKET !

METRIC

Smart Flat Stock: \$AVES YOU TIME - \$AVES YOU MONEY

Always close to your final dimensions.



ABRAMS - SAVES TIME AND MONEY!

ABRAMS!
PREMIUM STEEL

PREMIUM 304 - Smart FLAT STOCK METRIC

STAINLESS STEEL

Length: 300 mm

METRIC DIMENSIONS in mm

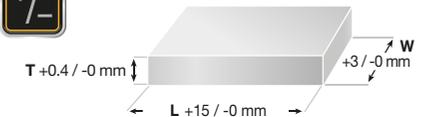
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[SmartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	N
0	0	0	0	0	17.5	8.0	0
0.07	1.0	2.0	0.045	0.015	19.5	10.5	0.11



Don't see your exact dimension(s)?

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Technical Properties

Corrosion resistant austenitic stainless chrome-nickel-steel with good processability and attractive appearance (ground-high-gloss polished). It has excellent deep drawing properties, is weldable and wear resistant but non-magnetizable and limited machining properties. Average mechanical properties, and conditionally acid resistant.
 Working hardness: 195-215 BHN (delivery condition).



Applications

Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



AISI 304 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
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PREMIUM 304 - \$smart FLAT STOCK METRIC

STAINLESS STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

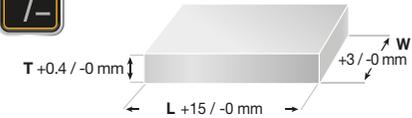
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	N
0	0	0	0	0	17.5	8.0	0
0.07	1.0	2.0	0.045	0.015	19.5	10.5	0.11



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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Technical Properties

Corrosion resistant austenitic stainless chrome-nickel-steel with good processability and attractive appearance (ground-high-gloss polished). It has excellent deep drawing properties, is weldable and wear resistant but non-magnetizable and limited machining properties. Average mechanical properties, and conditionally acid resistant.
 Working hardness: 195-215 BHN (delivery condition).



Applications

Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



AISI 304 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
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via smartphone / tablet:



PREMIUM 304 - COLD FINISHED ROUNDS

STAINLESS STEEL

Length: **18"**

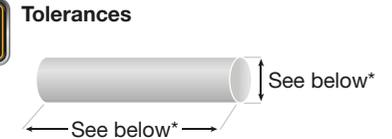
Length: **36"** **IMPERIAL DIAMETERS** in inch

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



[CF]: Surface Condition
 Drawn, smooth turned, ground, or ground and polished



Standard values
 Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	N
0	0	0	0	0	17.5	8.0	0
0.07	1.0	2.0	0.045	0.015	19.5	10.5	0.11



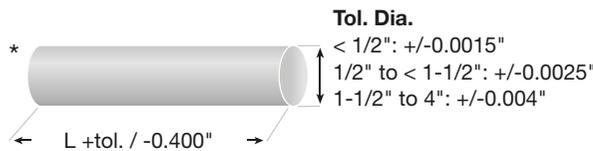
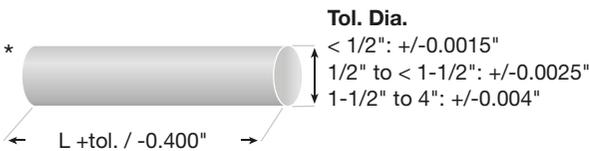
Don't see your exact dimension(s)?
 Any diameter is available in different lengths (e.g. round blanks).
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[18"] - abrams-steel.com/304-19
[36"] - abrams-steel.com/304-20



Technical Properties
 Corrosion resistant austenitic stainless chrome-nickel-steel with good processability and attractive appearance (ground-high-gloss polished). It has excellent deep drawing properties, is weldable and wear resistant but non-magnetizable and limited machining properties. Average mechanical properties, and conditionally acid resistant.
 Working hardness: 195-215 BHN (delivery condition).



Applications
 Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



AISI 304 – all at a glance!
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
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via smartphone / tablet:



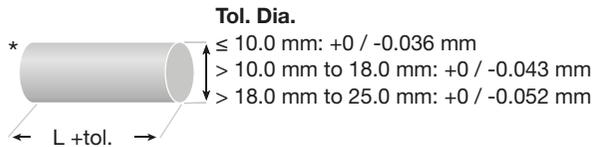
PREMIUM 304 - COLD FINISHED ROUNDS METRIC

STAINLESS STEEL

Length: 914 mm (36")

METRIC DIAMETERS in mm

Available Diameters [●]	
3.0	●
5.0	●
6.0	●
8.0	●
10.0	●
12.0	●
15.0	●
16.0	●
20.0	●
25.0	●

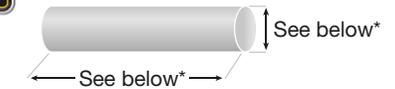


[CFM]: Surface Condition

Drawn, smooth turned, ground, or ground and polished (ISO h9)



Tolerances



Standard values

Delivery condition: maximum 215 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Ni	N
0	0	0	0	0	17.5	8.0	0
0.07	1.0	2.0	0.045	0.015	19.5	10.5	0.11



Don't see your exact dimension(s)?

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Technical Properties

Corrosion resistant austenitic stainless chrome-nickel-steel with good processability and attractive appearance (ground-high-gloss polished). It has excellent deep drawing properties, is weldable and wear resistant but non-magnetizable and limited machining properties. Average mechanical properties, and conditionally acid resistant.
Working hardness: 195-215 BHN (delivery condition).



Applications

Food industry, photographic industry, paint industry, oil industry, soap industry, paper industry, textile industry, mechanical engineering, turned parts, kitchen equipment, decoration, construction fittings.



AISI 304 – all at a glance!

Datasheets, online shop,
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PREMIUM 314 - \$mart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

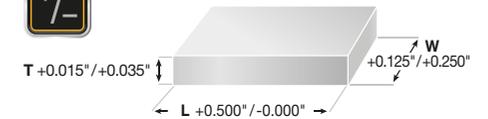
WIDTH	THICKNESS														
	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 223 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	N
0	1.5	0	0	0	24.0	19.0	0
0.2	2.5	2.0	0.045	0.015	26.0	22.0	0.11



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Technical Properties

Heat-resistant, austenitic chromium-nickel steel, that provides good resistance to oxidation at high temperatures. Good resistance properties as well as excellent chemical resistance at high temperatures up to 2012°F. Very good corrosion resistance. Working hardness: approx. 223 BHN (delivery condition).



Applications

Apparatus engineering for high temperature application, automotive industry, chemical industry, oil industry, chains for the cement and concrete industry, mechanical engineering, furnace construction, enamel grates, fire pits, heat conductors.



AISI 314 – all at a glance!

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PREMIUM 314 - \$mart FLAT STOCK

STAINLESS STEEL

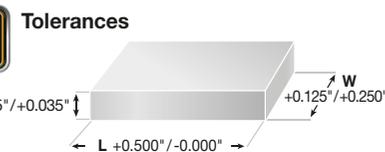
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS														
	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Standard values
 Delivery condition: maximum 223 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	N
0	1.5	0	0	0	24.0	19.0	0
0.2	2.5	2.0	0.045	0.015	26.0	22.0	0.11



Don't see your exact dimension(s)?
 Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties
 Heat-resistant, austenitic chromium-nickel steel, that provides good resistance to oxidation at high temperatures. Good resistance properties as well as excellent chemical resistance at high temperatures up to 2012°F. Very good corrosion resistance. Working hardness: approx. 223 BHN (delivery condition).



Applications
 Apparatus engineering for high temperature application, automotive industry, chemical industry, oil industry, chains for the cement and concrete industry, mechanical engineering, furnace construction, enamel grates, fire pits, heat conductors.



AISI 314 – all at a glance!
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via smartphone/tablet:



303

304

314

PREMIUM 314 - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

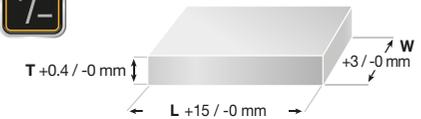
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 223 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni	N
0	1.5	0	0	0	24.0	19.0	0
0.2	2.5	2.0	0.045	0.015	26.0	22.0	0.11



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties

Heat-resistant, austenitic chromium-nickel steel, that provides good resistance to oxidation at high temperatures. Good resistance properties as well as excellent chemical resistance at high temperatures up to 2012°F. Very good corrosion resistance. Working hardness: approx. 223 BHN (delivery condition).



Applications

Apparatus engineering for high temperature application, automotive industry, chemical industry, oil industry, chains for the cement and concrete industry, mechanical engineering, furnace construction, enamel grates, fire pits, heat conductors.



AISI 314 – all at a glance!

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via smartphone / tablet:



PREMIUM 314 - \$smart FLAT STOCK METRIC

STAINLESS STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

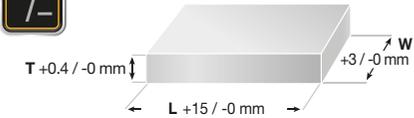
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 223 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Ni	N
0	1.5	0	0	0	24.0	19.0	0
0.2	2.5	2.0	0.045	0.015	26.0	22.0	0.11



Don't see your exact dimension(s)?

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Technical Properties

Heat-resistant, austenitic chromium-nickel steel, that provides good resistance to oxidation at high temperatures. Good resistance properties as well as excellent chemical resistance at high temperatures up to 2012°F. Very good corrosion resistance. Working hardness: approx. 223 BHN (delivery condition).



Applications

Apparatus engineering for high temperature application, automotive industry, chemical industry, oil industry, chains for the cement and concrete industry, mechanical engineering, furnace construction, enamel grates, fire pits, heat conductors.



AISI 314 – all at a glance!

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via smartphone/tablet:



303

304

314

PREMIUM 316L / 316 - \$smart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

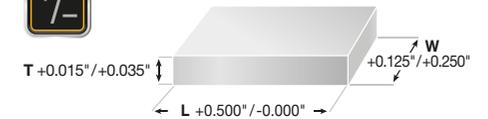
WIDTH	THICKNESS														
	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	N
0	0	0	0	0.015	16.5	2.0	10.0	0
0.03	1.0	2.0	0.04	0.03	18.5	2.5	13.0	0.1



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Direct access to our online shop

abrams-steel.com/316L-316-10



Technical Properties

Stainless, austenitic chromium-nickel-molybdenum steel. Polishable, suitable for low temperatures, high resistance with regards to non-oxidizing acids e.g. nitric acid, sulphuric acid and formic acid, easy to process and good weldability. Can also be used at high temperatures of up to 932°F, non-magnetizable. Working hardness: approx. 215 BHN (delivery condition).



Applications

Chemical industry, pharmaceutical industry, food industry, valve and plant construction, building industry, automotive industry, aviation industry, mechanical engineering, offshore, petrochemical industry, electrical equipment, decorative uses and kitchen equipment.



AISI 316L / 316 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/316L-316

via smartphone / tablet:



PREMIUM 316L / 316 - \$mart FLAT STOCK

STAINLESS STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

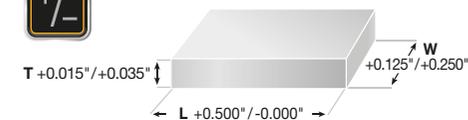
WIDTH	THICKNESS														
	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	N
0	0	0	0	0.015	16.5	2.0	10.0	0
0.03	1.0	2.0	0.04	0.03	18.5	2.5	13.0	0.1



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
 Custom orders on request
 - according to your requirements!



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Direct access to our online shop

abrams-steel.com/316L-316-11



Technical Properties

Stainless, austenitic chromium-nickel-molybdenum steel.
 Polishable, suitable for low temperatures, high resistance with regards to non-oxidizing acids e.g. nitric acid, sulphuric acid and formic acid, easy to process and good weldability. Can also be used at high temperatures of up to 932°F, non-magnetizable.
 Working hardness: approx. 215 BHN (delivery condition).



Applications

Chemical industry, pharmaceutical industry, food industry, valve and plant construction, building industry, automotive industry, aviation industry, mechanical engineering, offshore, petrochemical industry, electrical equipment, decorative uses and kitchen equipment.



AISI 316L / 316 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
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via smartphone/tablet:



303

304

314

316L / 316

PREMIUM 316L / 316 - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

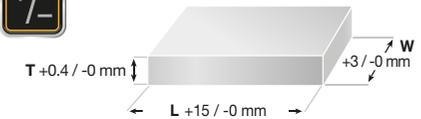
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	N
0	0	0	0	0.015	16.5	2.0	10.0	0
0.03	1.0	2.0	0.04	0.03	18.5	2.5	13.0	0.1



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Direct access to our online shop

abrams-steel.com/316L-316-12



Technical Properties

Stainless, austenitic chromium-nickel-molybdenum steel. Polishable, suitable for low temperatures, high resistance with regards to non-oxidizing acids e.g. nitric acid, sulphuric acid and formic acid, easy to process and good weldability. Can also be used at high temperatures of up to 932°F, non-magnetizable. Working hardness: approx. 215 BHN (delivery condition).



Applications

Chemical industry, pharmaceutical industry, food industry, valve and plant construction, building industry, automotive industry, aviation industry, mechanical engineering, offshore, petrochemical industry, electrical equipment, decorative uses and kitchen equipment.



AISI 316L / 316 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/316L-316

via smartphone / tablet:



PREMIUM 316L / 316 - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

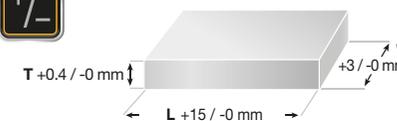
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 215 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	N
0	0	0	0	0.015	16.5	2.0	10.0	0
0.03	1.0	2.0	0.04	0.03	18.5	2.5	13.0	0.1



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
Custom orders on request
- according to your requirements!



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Direct access to our online shop

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Technical Properties

Stainless, austenitic chromium-nickel-molybdenum steel.
Polishable, suitable for low temperatures, high resistance with regards to non-oxidizing acids e.g. nitric acid, sulphuric acid and formic acid, easy to process and good weldability. Can also be used at high temperatures of up to 932°F, non-magnetizable. Working hardness: approx. 215 BHN (delivery condition).



Applications

Chemical industry, pharmaceutical industry, food industry, valve and plant construction, building industry, automotive industry, aviation industry, mechanical engineering, offshore, petrochemical industry, electrical equipment, decorative uses and kitchen equipment.



AISI 316L / 316 – all at a glance!

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via smartphone/tablet:



303

304

314

316L / 316

PREMIUM 316L / 316 - COLD FINISHED ROUNDS

STAINLESS STEEL

Length: **18"**

Length: **36"** **IMPERIAL DIAMETERS in inch**

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

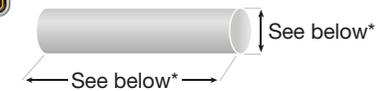


[CF]: Surface Condition

Drawn, smooth turned, ground, or ground and polished



Tolerances



Standard values

Delivery condition: maximum 215 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	N
0	0	0	0	0.015	16.5	2.0	10.0	0
0.03	1.0	2.0	0.04	0.03	18.5	2.5	13.0	0.1



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
Custom orders on request
- according to your requirements.



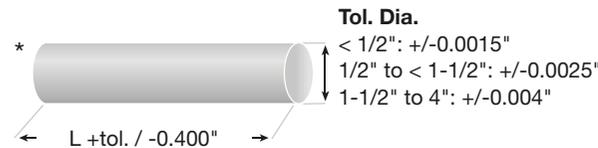
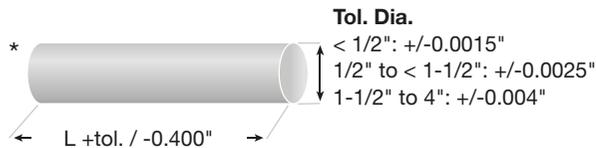
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Direct access to our online shop

[18"] - abrams-steel.com/316L-316-19
[36"] - abrams-steel.com/316L-316-20



Technical Properties

Stainless, austenitic chromium-nickel-molybdenum steel.
Polishable, suitable for low temperatures, high resistance with regards to non-oxidizing acids e.g. nitric acid, sulphuric acid and formic acid, easy to process and good weldability. Can also be used at high temperatures of up to 932°F, non-magnetizable.
Working hardness: approx. 215 BHN (delivery condition).



Applications

Chemical industry, pharmaceutical industry, food industry, valve and plant construction, building industry, automotive industry, aviation industry, mechanical engineering, offshore, petrochemical industry, electrical equipment, decorative uses and kitchen equipment.



AISI 316L / 316 – all at a glance!

Datasheets, online shop,
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via smartphone / tablet:



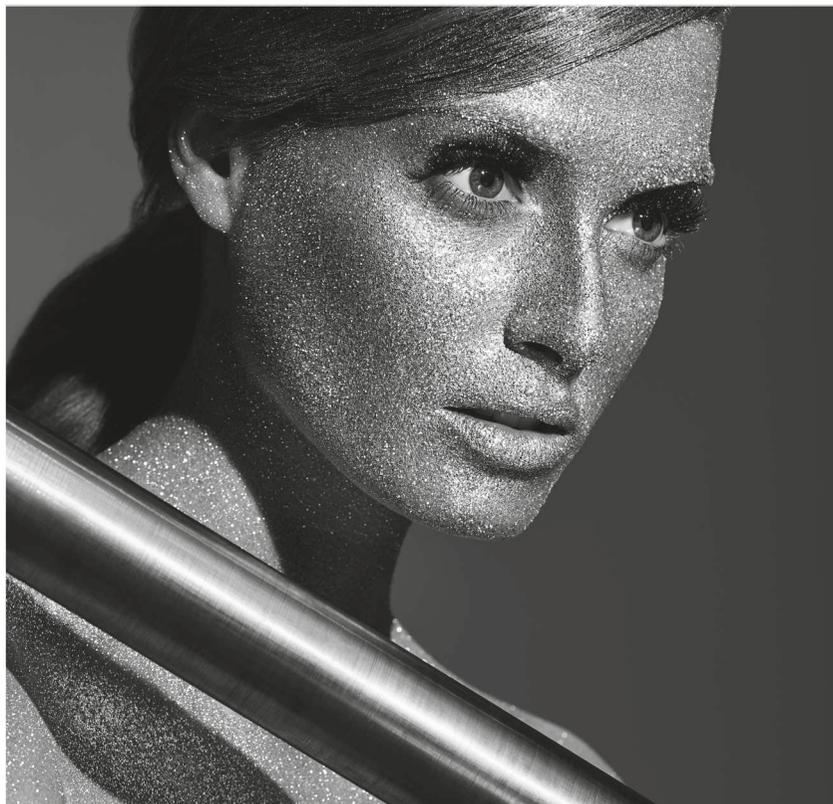
PREMIUM 316L / 316 - COLD FINISHED ROUNDS METRIC

STAINLESS STEEL

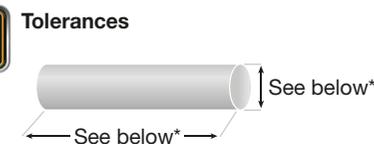
Length: 914 mm (36")

METRIC DIAMETERS in mm

Available Diameters [●]	
5.0	●
6.0	●
8.0	●
10.0	●
12.0	●
15.0	●
16.0	●
20.0	●
25.0	●



[CFM]: Surface Condition
Drawn, smooth turned, ground, or ground and polished (ISO h9)



Standard values
Delivery condition: maximum 215 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	N
0	0	0	0.015	16.5	2.0	10.0	0	
0.03	1.0	2.0	0.04	0.03	18.5	2.5	13.0	0.1



Don't see your exact dimension(s)?
Any diameter is available in different lengths (e.g. round blanks).
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Technical Properties
Stainless, austenitic chromium-nickel-molybdenum steel.
Polishable, suitable for low temperatures, high resistance with regards to non-oxidizing acids e.g. nitric acid, sulphuric acid and formic acid, easy to process and good weldability. Can also be used at high temperatures of up to 932°F, non-magnetizable.
Working hardness: approx. 215 BHN (delivery condition).



Applications
Chemical industry, pharmaceutical industry, food industry, valve and plant construction, building industry, automotive industry, aviation industry, mechanical engineering, offshore, petrochemical industry, electrical equipment, decorative uses and kitchen equipment.



AISI 316L / 316 – all at a glance!
Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
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via smartphone/tablet:



303

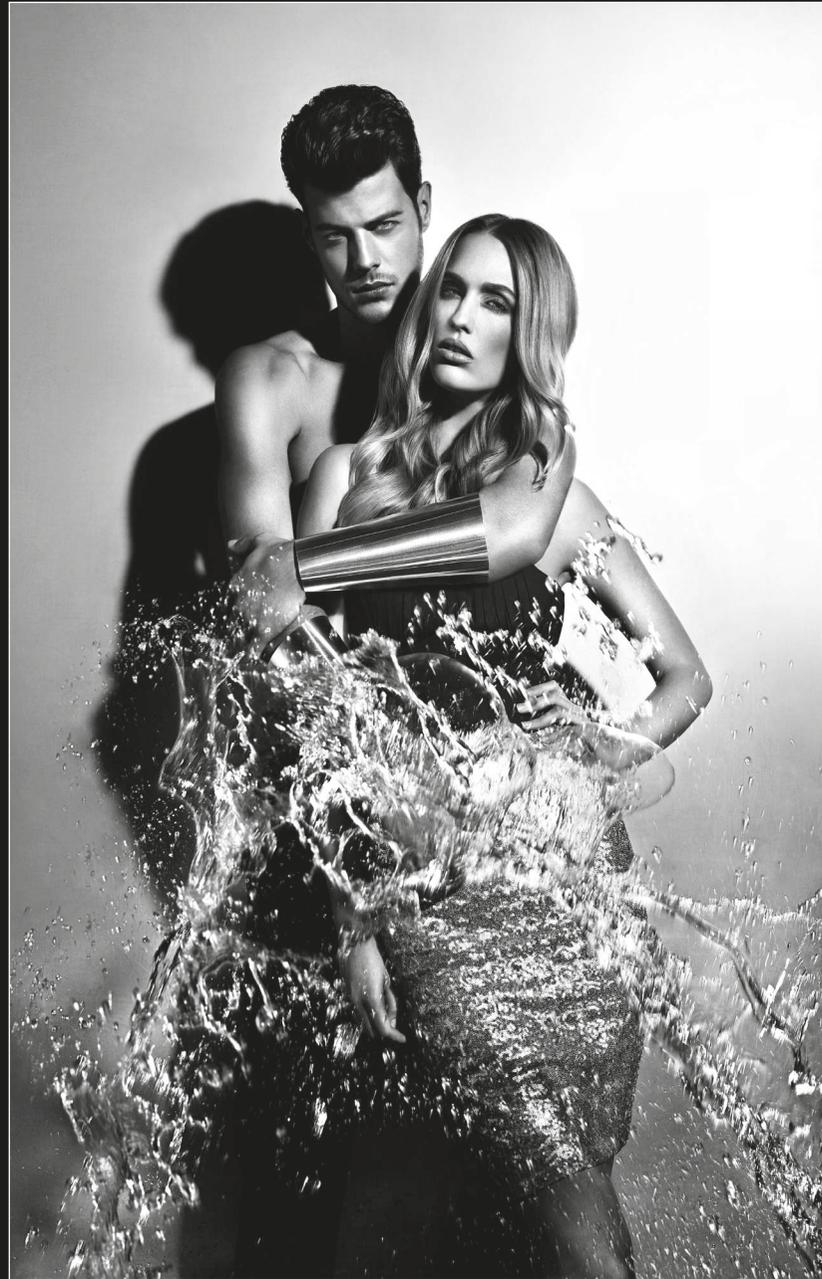
304

314

316L / 316



WATCH THE MAKING OF THE CALENDAR 2013 / 2016



303

304

314

316L / 316

ABRAMS PREMIUM CORROSION RESISTANT STEEL!

ABRAMS!
PREMIUM STEEL

PREMIUM 316Ti - \$mart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

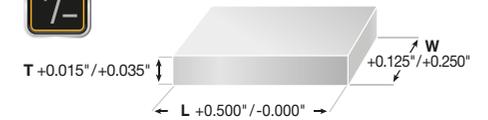
WIDTH	THICKNESS														
	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	Ti
0	0	0	0	0	16.5	2.0	10.5	0
0.08	1.0	2.0	0.045	0.015	18.5	2.5	13.5	0.7



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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Technical Properties

Stainless steel, austenitic chromium-nickel-molybdenum steel, stabilized with titanium. Resistant to seawater, diluted sulphuric and hydrochloric acids, and to intergranular corrosion following welding processes. Has excellent cold working properties, very good weldability and temperature resistance up to 1112°F, non-magnetizable.
 Working hardness: approx. 215 BHN (delivery condition).



Applications

Chemical industry, textile industry, oil industry, building industry, food industry, soap industry, paper industry, photographic industry, paint industry, rubber industry, mechanical engineering, apparatus engineering, pump construction, compressor construction, pipeline construction, shipbuilding, medical technology, pharmaceutical industry, nuclear engineering.



AISI 316Ti – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/316Ti

via smartphone/tablet:



PREMIUM 316Ti - \$mart FLAT STOCK

STAINLESS STEEL

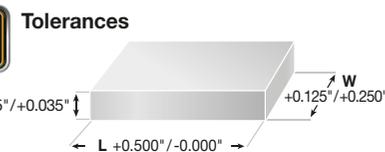
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS														
	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Standard values
 Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	Ti
0	0	0	0	0	16.5	2.0	10.5	0
0.08	1.0	2.0	0.045	0.015	18.5	2.5	13.5	0.7



Don't see your exact dimension(s)?
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Technical Properties
 Stainless steel, austenitic chromium-nickel-molybdenum steel, stabilized with titanium. Resistant to seawater, diluted sulphuric and hydrochloric acids, and to intergranular corrosion following welding processes. Has excellent cold working properties, very good weldability and temperature resistance up to 1112°F, non-magnetizable.
 Working hardness: approx. 215 BHN (delivery condition).



Applications
 Chemical industry, textile industry, oil industry, building industry, food industry, soap industry, paper industry, photographic industry, paint industry, rubber industry, mechanical engineering, apparatus engineering, pump construction, compressor construction, pipeline construction, shipbuilding, medical technology, pharmaceutical industry, nuclear engineering.



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via smartphone/tablet:

- 303
- 304
- 314
- 316L / 316
- 316Ti

PREMIUM 316Ti - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

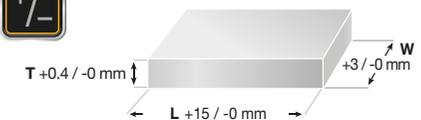
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	Ti
0	0	0	0	0	16.5	2.0	10.5	0
0.08	1.0	2.0	0.045	0.015	18.5	2.5	13.5	0.7



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Technical Properties

Stainless steel, austenitic chromium-nickel-molybdenum steel, stabilized with titanium. Resistant to seawater, diluted sulphuric and hydrochloric acids, and to intergranular corrosion following welding processes. Has excellent cold working properties, very good weldability and temperature resistance up to 1112°F, non-magnetizable.
 Working hardness: approx. 215 BHN (delivery condition).



Applications

Chemical industry, textile industry, oil industry, building industry, food industry, soap industry, paper industry, photographic industry, paint industry, rubber industry, mechanical engineering, apparatus engineering, pump construction, compressor construction, pipeline construction, shipbuilding, medical technology, pharmaceutical industry, nuclear engineering.



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 ABRAMS STEEL GUIDE for alternatives:
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via smartphone/tablet:



PREMIUM 316Ti - \$mart FLAT STOCK METRIC

STAINLESS STEEL

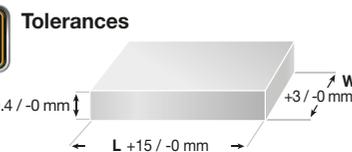
Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 215 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	Ti
0	0	0	0	0	16.5	2.0	10.5	0
0.08	1.0	2.0	0.045	0.015	18.5	2.5	13.5	0.7



Don't see your exact dimension(s)?
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Technical Properties
 Stainless steel, austenitic chromium-nickel-molybdenum steel, stabilized with titanium. Resistant to seawater, diluted sulphuric and hydrochloric acids, and to intergranular corrosion following welding processes. Has excellent cold working properties, very good weldability and temperature resistance up to 1112°F, non-magnetizable.
 Working hardness: approx. 215 BHN (delivery condition).



Applications
 Chemical industry, textile industry, oil industry, building industry, food industry, soap industry, paper industry, photographic industry, paint industry, rubber industry, mechanical engineering, apparatus engineering, pump construction, compressor construction, pipeline construction, shipbuilding, medical technology, pharmaceutical industry, nuclear engineering.



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2013 / 2016



ABRAMS PREMIUM CORROSION RESISTANT STEEL!

ABRAMS!
PREMIUM STEEL

PREMIUM 316Ti - COLD FINISHED ROUNDS METRIC

STAINLESS STEEL

Length: 914 mm (36")

METRIC DIAMETERS in mm

Available Diameters [●]

5.0	●
6.0	●
8.0	●
10.0	●
12.0	●
15.0	●
16.0	●
20.0	●
25.0	●

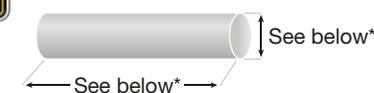


[CFM]: Surface Condition

Drawn, smooth turned, ground, or ground and polished (ISO h9)



Tolerances



Standard values

Delivery condition: maximum 215 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni	Ti
0	0	0	0	0	16.5	2.0	10.5	0
0.08	1.0	2.0	0.045	0.015	18.5	2.5	13.5	0.7



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
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- according to your requirements.



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Technical Properties

Stainless steel, austenitic chromium-nickel-molybdenum steel, stabilized with titanium. Resistant to seawater, diluted sulphuric and hydrochloric acids, and to intergranular corrosion following welding processes. Has excellent cold working properties, very good weldability and temperature resistance up to 1112°F, non-magnetizable.
Working hardness: approx. 215 BHN (delivery condition).



Applications

Chemical industry, textile industry, oil industry, building industry, food industry, soap industry, paper industry, photographic industry, paint industry, rubber industry, mechanical engineering, apparatus engineering, pump construction, compressor construction, pipeline construction, shipbuilding, medical technology, pharmaceutical industry, nuclear engineering.



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via smartphone / tablet:



303

304

314

316L /
316

316Ti

PREMIUM 410 - \$mart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

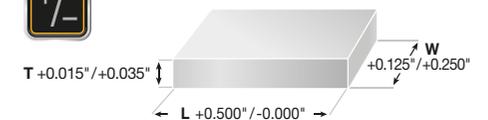
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 252 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.08	0	0	0	0	11.5	0
0.15	1.0	1.5	0.04	0.03	13.5	0.75



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Technical Properties

Corrosion resistant, martensitic steel (tempered condition), which shows good mechanical and good corrosion resistance in moderately aggressive substances. It has a low susceptibility to embrittlement, is polishable to a high gloss and can be used at temperatures up to 752°F.
 Working hardness: approx. 25 HRC (delivery condition) up to 31 HRC.



Applications

Hydraulic engineering, mechanical engineering, pump industry, oil industry, petrochemical industry, decorative uses, kitchen equipment, food industry, environmental technology, energy technology (hydroelectric power).



AISI 410 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/410

via smartphone/tablet:



PREMIUM 410 - \$mart FLAT STOCK

STAINLESS STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

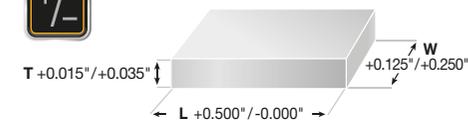
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 252 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.08	0	0	0	0	11.5	0
0.15	1.0	1.5	0.04	0.03	13.5	0.75



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Technical Properties

Corrosion resistant, martensitic steel (tempered condition), which shows good mechanical and good corrosion resistance in moderately aggressive substances. It has a low susceptibility to embrittlement, is polishable to a high gloss and can be used at temperatures up to 752°F.
 Working hardness: approx. 25 HRC (delivery condition) up to 31 HRC.



Applications

Hydraulic engineering, mechanical engineering, pump industry, oil industry, petrochemical industry, decorative uses, kitchen equipment, food industry, environmental technology, energy technology (hydroelectric power).



AISI 410 – all at a glance!

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via smartphone/tablet:



303

304

314

316L /
316

316Ti

410

PREMIUM 410 - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

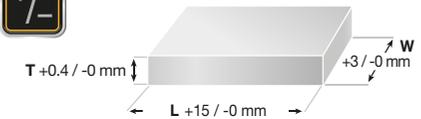
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 252 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.08	0	0	0	0	11.5	0
0.15	1.0	1.5	0.04	0.03	13.5	0.75



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Technical Properties

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Working hardness: approx. 25 HRC (delivery condition) up to 31 HRC.



Applications

Hydraulic engineering, mechanical engineering, pump industry, oil industry, petrochemical industry, decorative uses, kitchen equipment, food industry, environmental technology, energy technology (hydroelectric power).



AISI 410 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/410

via smartphone / tablet:



PREMIUM 410 - \$mart FLAT STOCK METRIC

STAINLESS STEEL

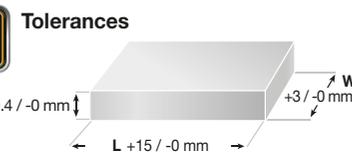
Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS													
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3	
	Available Dimensions [■]													
33	■	■	■	■	■	■	■							
43	■	■	■	■	■	■	■	■						
53	■	■	■	■	■	■	■	■	■					
63	■	■	■	■	■	■	■	■	■	■				
73	■	■	■	■	■	■	■	■	■	■	■			
83	■	■	■	■	■	■	■	■	■	■	■	■		
93	■	■	■	■	■	■	■	■	■	■	■	■	■	
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 252 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.08	0	0	0	0	11.5	0
0.15	1.0	1.5	0.04	0.03	13.5	0.75



Don't see your exact dimension(s)?
 Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties
 Corrosion resistant, martensitic steel (tempered condition), which shows good mechanical and good corrosion resistance in moderately aggressive substances. It has a low susceptibility to embrittlement, is polishable to a high gloss and can be used at temperatures up to 752°F.
 Working hardness: approx. 25 HRC (delivery condition) up to 31 HRC.



Applications
 Hydraulic engineering, mechanical engineering, pump industry, oil industry, petrochemical industry, decorative uses, kitchen equipment, food industry, environmental technology, energy technology (hydroelectric power).



AISI 410 – all at a glance!
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via smartphone/tablet:



303

304

314

316L / 316

316Ti

410

PREMIUM 410 - COLD FINISHED ROUNDS

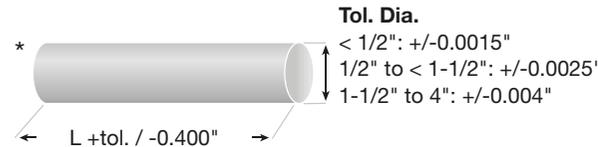
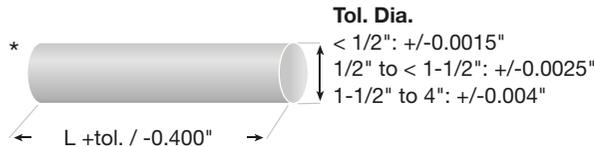
STAINLESS STEEL

Length: **18"**

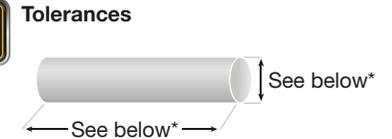
Length: **36"** **IMPERIAL DIAMETERS** in inch

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●



[CF]: Surface Condition
 Drawn, smooth turned, ground, or ground and polished



Standard values
 Delivery condition: maximum 252 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.08	0	0	0	0	11.5	0
0.15	1.0	1.5	0.04	0.03	13.5	0.75



Don't see your exact dimension(s)?
 Any diameter is available in different lengths (e.g. round blanks).
 Custom orders on request
 - according to your requirements.



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[18"] - abrams-steel.com/410-19
[36"] - abrams-steel.com/410-20



Technical Properties
 Corrosion resistant, martensitic steel (tempered condition), which shows good mechanical and good corrosion resistance in moderately aggressive substances. It has a low susceptibility to embrittlement, is polishable to a high gloss and can be used at temperatures up to 752°F.
 Working hardness: approx. 25 HRC (delivery condition) up to 31 HRC.



Applications
 Hydraulic engineering, mechanical engineering, pump industry, oil industry, petrochemical industry, decorative uses, kitchen equipment, food industry, environmental technology, energy technology (hydroelectric power).



AISI 410 – all at a glance!
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/410

via smartphone / tablet:



PREMIUM 410 - DECARB FREE ROUNDS

STAINLESS STEEL

Length: **18"**

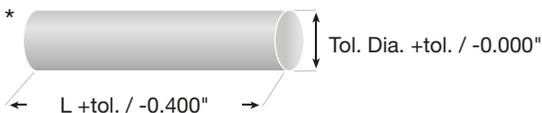
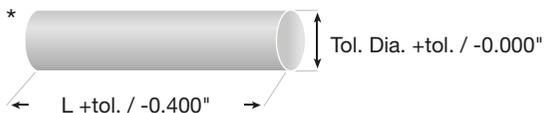
Length: **36"** **IMPERIAL DIAMETERS in inch**

Available Diameters [●]

2-1/2"	●
3"	●
3-1/2"	●
4"	●

Available Diameters [●]

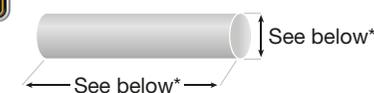
2-1/2"	●
3"	●
3-1/2"	●
4"	●



[DCF]: Surface Condition
Peeled or rough-turned



Tolerances



Standard values

Delivery condition: maximum 252 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.08	0	0	0	0	11.5	0
0.15	1.0	1.5	0.04	0.03	13.5	0.75



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
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[18"] - abrams-steel.com/410-22
[36"] - abrams-steel.com/410-23



Technical Properties

Corrosion resistant, martensitic steel (tempered condition), which shows good mechanical and good corrosion resistance in moderately aggressive substances. It has a low susceptibility to embrittlement, is polishable to a high gloss and can be used at temperatures up to 752°F.
Working hardness: approx. 25 HRC (delivery condition) up to 31 HRC.



Applications

Hydraulic engineering, mechanical engineering, pump industry, oil industry, petrochemical industry, decorative uses, kitchen equipment, food industry, environmental technology, energy technology (hydroelectric power).



AISI 410 – all at a glance!

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via smartphone / tablet:



303

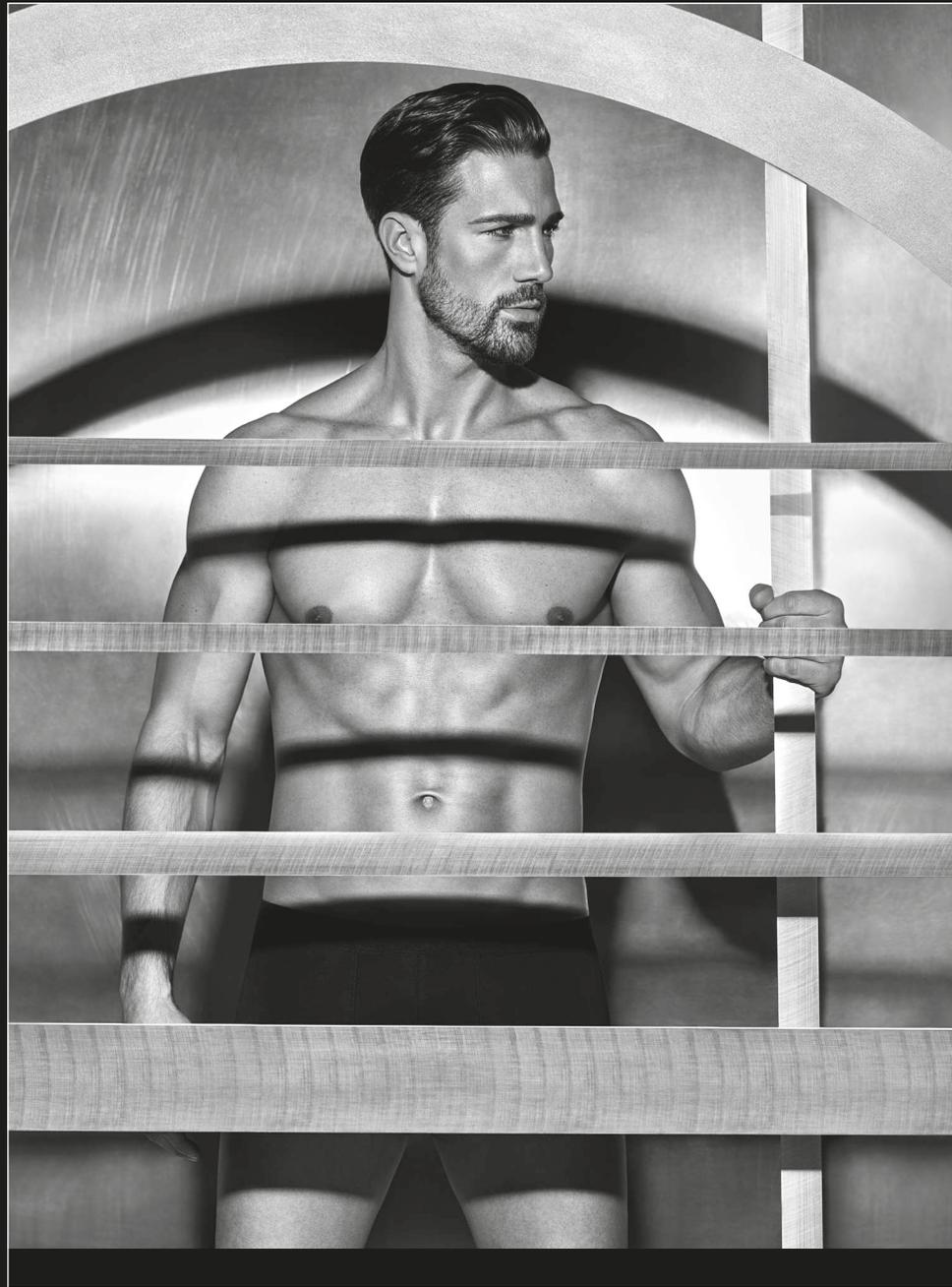
304

314

316L /
316

316Ti

410



ABRAMS - PIONEERING!

ABRAMS!
PREMIUM STEEL

PREMIUM 420 - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

STAINLESS STEEL

Length: 1,000 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS					
	8.2	10.3	12.3	15.3	16.3	20.3
	Available Dimensions [■]					
15.3				■		
20.3	■	■	■	■	■	■
25.3	■	■	■	■	■	■
30.3	■	■	■	■	■	■
32.3		■		■	■	
40.3	■	■	■			
50.3	■	■				
60.3	■					
70.3	■					



[GFSM O/S]: Surface Condition

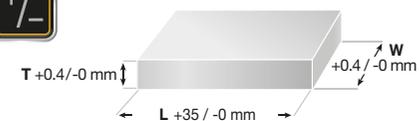
Thickness: ground or fine milled

Width: ground or fine milled

Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 241 BHN

Chemical composition:

C	Si	Mn	P	S	Cr
0.43	0	0	0	0	12.5
0.5	1.0	1.0	0.04	0.015	14.5



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.

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- according to your requirements!



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Technical Properties

Corrosion resistant cold work and plastic mold steel with good machining properties, hardenable and polishable. Low distortion through-hardening steel with full hardenability and high wear resistance, conditionally acid resistant.

Working hardness: 50-55 HRC.



Applications

Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.

303

304

314

316L / 316

316Ti

410

420



AISI 420 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/420

via smartphone / tablet:



PREMIUM 420 - \$smart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

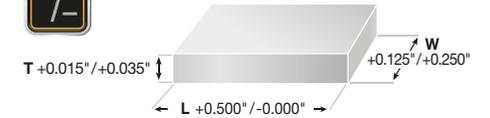
WIDTH	THICKNESS																					
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	
	Available Dimensions [■]																					
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 241 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.43	0	0	0	0	12.5
0.5	1.0	1.0	0.04	0.015	14.5



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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Technical Properties

Corrosion resistant cold work and plastic mold steel with good machining properties, hardenable and polishable. Low distortion through-hardening steel with full hardenability and high wear resistance, conditionally acid resistant.
 Working hardness: 50-55 HRC.



Applications

Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.



AISI 420 – all at a glance!

Datasheets, online shop,
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via smartphone / tablet:



PREMIUM 420 - \$mart FLAT STOCK

STAINLESS STEEL

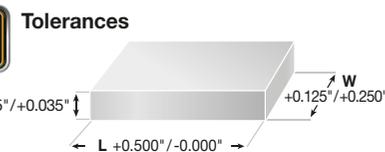
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS																					
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Standard values
 Delivery condition: maximum 241 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.43	0	0	0	0	12.5
0.5	1.0	1.0	0.04	0.015	14.5



Don't see your exact dimension(s)?
 Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties
 Corrosion resistant cold work and plastic mold steel with good machining properties, hardenable and polishable. Low distortion through-hardening steel with full hardenability and high wear resistance, conditionally acid resistant.
 Working hardness: 50-55 HRC.



Applications
 Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.



AISI 420 – all at a glance!
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via smartphone/tablet:

303
 304
 314
 316L / 316
 316Ti
 410
 420

PREMIUM 420 - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: 300 mm

METRIC DIMENSIONS in mm

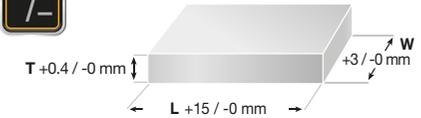
WIDTH	THICKNESS																	
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]																	
33	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 241 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.43	0	0	0	0	12.5
0.5	1.0	1.0	0.04	0.015	14.5



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Technical Properties

Corrosion resistant cold work and plastic mold steel with good machining properties, hardenable and polishable. Low distortion through-hardening steel with full hardenability and high wear resistance, conditionally acid resistant.
 Working hardness: 50-55 HRC.



Applications

Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.



AISI 420 – all at a glance!

Datasheets, online shop,
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via smartphone / tablet:



PREMIUM 420 - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS																	
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]																	
33	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition

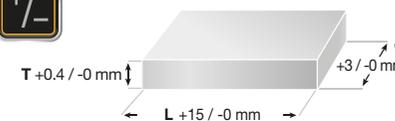
Thickness: ground or fine milled

Width: saw cut

Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 241 BHN

Chemical composition:

C	Si	Mn	P	S	Cr
0.43	0	0	0	0	12.5
0.5	1.0	1.0	0.04	0.015	14.5



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Technical Properties

Corrosion resistant cold work and plastic mold steel with good machining properties, hardenable and polishable. Low distortion through-hardening steel with full hardenability and high wear resistance, conditionally acid resistant.

Working hardness: 50-55 HRC.



Applications

Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.



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303

304

314

316L / 316

316Ti

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WATCH THE MAKING OF THE
7TH MOTIF FOR CALENDAR
2019 / 2022



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PREMIUM STEEL

PREMIUM 420 - HARD FLAT METRIC

STAINLESS STEEL

Length: 250 mm

METRIC DIMENSIONS in mm

	THICKNESS											
	2.2	2.7	3.2	3.7	4.2	4.7	5.2	6.2	7.2	8.2	9.2	
WIDTH	Available Dimensions [mm]											
250	■	■	■	■	■	■	■	■	■	■	■	■

Hard Flat

ALREADY HARDENED DIMENSIONS IN LENGTH OF 250 mm AND 500 mm !

Length: 500 mm

METRIC DIMENSIONS in mm

	THICKNESS				
	2.2	2.7	3.2	3.7	4.2
WIDTH	Available Dimensions [mm]				
250	■	■	■	■	■

Hardened dimensions are delivered with approx. 50 HRC, at least double tempered.



Technical Properties

Corrosion resistant cold work and plastic mold steel with good machining properties, hardenable and polishable. Low distortion through-hardening steel with full hardenability and high wear resistance, conditionally acid resistant.
Working hardness: 50-55 HRC.



Applications

Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.



[HardM]: Surface Condition

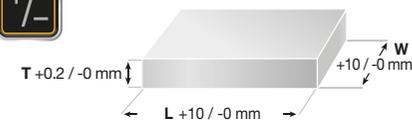
Thickness: ground or fine milled

Width: saw cut or sheared

Length: saw cut or sheared



Tolerances



Standard values

Delivery condition: maximum 241 BHN

Chemical composition:

C	Si	Mn	P	S	Cr
0.43	0	0	0	0	12.5
0.5	1.0	1.0	0.04	0.015	14.5



Don't see your exact dimension(s)?

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303

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316L /
316

316Ti

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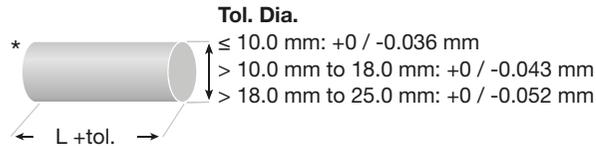
PREMIUM 420 - COLD FINISHED ROUNDS METRIC

STAINLESS STEEL

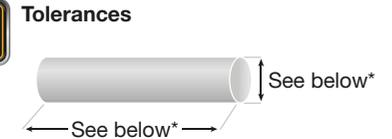
Length: 914 mm (36")

METRIC DIAMETERS in mm

Available Diameters [●]	
15.0	●
16.0	●
18.0	●
20.0	●
25.0	●



[CFM]: Surface Condition
 Drawn, smooth turned, ground, or ground and polished (ISO h9)



Standard values
 Delivery condition: maximum 241 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.43	0	0	0	0	12.5
0.5	1.0	1.0	0.04	0.015	14.5



Don't see your exact dimension(s)?
 Any diameter is available in different lengths (e.g. round blanks).
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 - according to your requirements.



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Technical Properties

Corrosion resistant cold work and plastic mold steel with good machining properties, hardenable and polishable. Low distortion through-hardening steel with full hardenability and high wear resistance, conditionally acid resistant.
 Working hardness: 50-55 HRC.



Applications

Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.



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PREMIUM 420 - DECARB FREE ROUNDS

STAINLESS STEEL

Length: **18"**

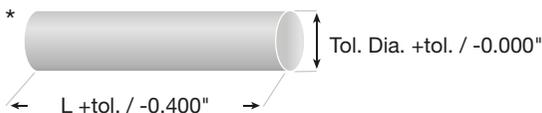
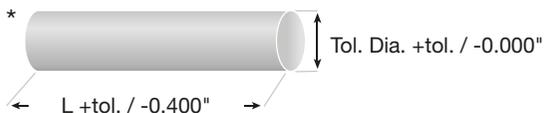
Length: **36"** **IMPERIAL DIAMETERS in inch**

Available Diameters [●]

1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

Available Diameters [●]

1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



Technical Properties

Corrosion resistant cold work and plastic mold steel with good machining properties, hardenable and polishable. Low distortion through-hardening steel with full hardenability and high wear resistance, conditionally acid resistant.
Working hardness: 50-55 HRC.



Applications

Mechanical engineering, medical technology, plastic molds, synthetic resin mold tools, die casting tools, light metal die casting, cutting tools, machine knives, kitchen knives, razors, shears, scraper blades, surgical instruments, measuring tools, roller bearings, ball bearings, ice-skates, pump parts, valves.

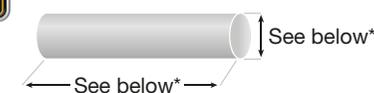


[DCF]: Surface Condition

Peeled or rough-turned



Tolerances



Standard values

Delivery condition: maximum 241 BHN
Chemical composition:

C	Si	Mn	P	S	Cr
0.43	0	0	0	0	12.5
0.5	1.0	1.0	0.04	0.015	14.5



Don't see your exact dimension(s)?

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[36"] - abrams-steel.com/420-23



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303

304

314

316L /
316

316Ti

410

420

PREMIUM 420 mod. - \$mart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

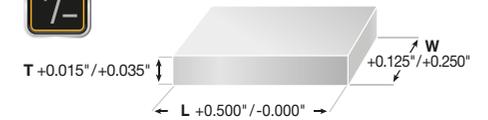
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 252 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.16	0	0	0	0	12.0
0.25	1.0	1.5	0.04	0.015	14.0



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Technical Properties

Martensitic chromium steel with good mechanical properties (tempered condition). With the ability to polish this material to a high gloss finish it is ideally suited as knife steel. Good forgeability, medium weldability and is conditionally acid resistant. Working hardness: approx. 25 HRC (delivery condition) up to 47 HRC.



Applications

Automotive industry, power engineering, turbine and power plant construction, medical technology, mechanical engineering, petrochemical industry, cutting tool industry, knives, fasteners, architecture and decoration.



AISI 420 mod. – all at a glance!

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PREMIUM 420 mod. - \$smart FLAT STOCK

STAINLESS STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

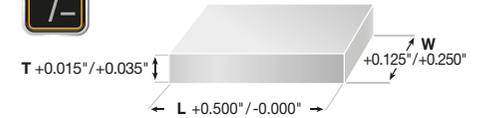
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 252 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.16	0	0	0	0	12.0
0.25	1.0	1.5	0.04	0.015	14.0



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Technical Properties

Martensitic chromium steel with good mechanical properties (tempered condition). With the ability to polish this material to a high gloss finish it is ideally suited as knife steel. Good forgeability, medium weldability and is conditionally acid resistant. Working hardness: approx. 25 HRC (delivery condition) up to 47 HRC.



Applications

Automotive industry, power engineering, turbine and power plant construction, medical technology, mechanical engineering, petrochemical industry, cutting tool industry, knives, fasteners, architecture and decoration.



AISI 420 mod. - all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/420mod

via smartphone/tablet:



303

304

314

316L /
316

316Ti

410

420

420 mod.

PREMIUM 420 mod. - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: 300 mm

METRIC DIMENSIONS in mm

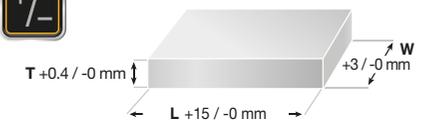
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 252 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.16	0	0	0	0	12.0
0.25	1.0	1.5	0.04	0.015	14.0



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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 - according to your requirements!



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Direct access to our online shop

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Technical Properties

Martensitic chromium steel with good mechanical properties (tempered condition). With the ability to polish this material to a high gloss finish it is ideally suited as knife steel. Good forgeability, medium weldability and is conditionally acid resistant. Working hardness: approx. 25 HRC (delivery condition) up to 47 HRC.



Applications

Automotive industry, power engineering, turbine and power plant construction, medical technology, mechanical engineering, petrochemical industry, cutting tool industry, knives, fasteners, architecture and decoration.



AISI 420 mod. – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/420mod

via smartphone / tablet:



PREMIUM 420 mod. - \$smart FLAT STOCK METRIC

STAINLESS STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

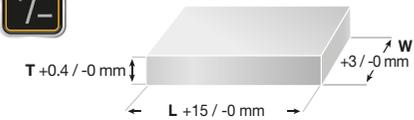
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 252 BHN
Chemical composition:

C	Si	Mn	P	S	Cr
0.16	0	0	0	0	12.0
0.25	1.0	1.5	0.04	0.015	14.0



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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- according to your requirements!



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Technical Properties

Martensitic chromium steel with good mechanical properties (tempered condition). With the ability to polish this material to a high gloss finish it is ideally suited as knife steel. Good forgeability, medium weldability and is conditionally acid resistant. Working hardness: approx. 25 HRC (delivery condition) up to 47 HRC.



Applications

Automotive industry, power engineering, turbine and power plant construction, medical technology, mechanical engineering, petrochemical industry, cutting tool industry, knives, fasteners, architecture and decoration.



AISI 420 mod. – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/420mod

via smartphone/tablet:



303

304

314

316L /
316

316Ti

410

420

420 mod.



COLD FINISHED ROUNDS IN METRIC - DRAWN, SMOOTH TURNED, GROUND OR GROUND AND POLISHED!

ABRAMS!
PREMIUM STEEL

PREMIUM 420 mod. - COLD FINISHED ROUNDS METRIC

STAINLESS STEEL

Length: 914 mm (36")

METRIC DIAMETERS in mm

Available Diameters [●]	
8.0	●
10.0	●
12.0	●
15.0	●
20.0	●
25.0	●

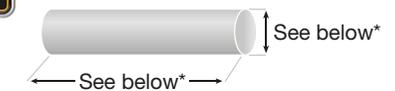


[CFM]: Surface Condition

Drawn, smooth turned, ground, or ground and polished (ISO h9)



Tolerances



Standard values

Delivery condition: maximum 252 BHN
Chemical composition:

C	Si	Mn	P	S	Cr
0.16	0	0	0	0	12.0
0.25	1.0	1.5	0.04	0.015	14.0



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
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- according to your requirements.



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Technical Properties

Martensitic chromium steel with good mechanical properties (tempered condition). With the ability to polish this material to a high gloss finish it is ideally suited as knife steel. Good forgeability, medium weldability and is conditionally acid resistant. Working hardness: approx. 25 HRC (delivery condition) up to 47 HRC.



Applications

Automotive industry, power engineering, turbine and power plant construction, medical technology, mechanical engineering, petrochemical industry, cutting tool industry, knives, fasteners, architecture and decoration.



AISI 420 mod. - all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/420mod

via smartphone/tablet:



303

304

314

316L /
316

316Ti

410

420

420 mod.

PREMIUM 420RM - \$mart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

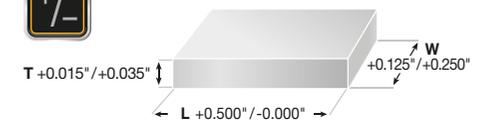
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 325 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.33	0	0	0	0	15.5	0.8	0
0.45	1.0	1.5	0.045	0.03	17.5	1.3	1.0



Don't see your exact dimension(s)?

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Technical Properties

Pre-hardened corrosion resistant chrome-steel with good polishing properties, heat resistance and wear resistance. Often used for processing chemically aggressive plastic materials (e.g. PVC). The material is conditionally acid resistant.
 Working hardness: approx. 30 HRC (delivery condition) up to 48 HRC.



Applications

Mechanical engineering, marine engineering, apparatus engineering, plastic processing, plastic molds, extrusion tools, press molds, fitting tools, shafts, spindles, bolts, pistons, valves, steam valves, water valves, beater bars, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical Instruments.



AISI 420RM – all at a glance!

Datasheets, online shop,
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 abrams-steel.com/420RM

via smartphone / tablet:



PREMIUM 420RM - \$smart FLAT STOCK

STAINLESS STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances

T +0.015"/+0.035"
 W +0.125"/+0.250"
 L +0.500"/-0.000"



Standard values
 Delivery condition: maximum 325 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.33	0	0	0	0	15.5	0.8	0
0.45	1.0	1.5	0.045	0.03	17.5	1.3	1.0



Don't see your exact dimension(s)?
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Technical Properties
 Pre-hardened corrosion resistant chrome-steel with good polishing properties, heat resistance and wear resistance. Often used for processing chemically aggressive plastic materials (e.g. PVC). The material is conditionally acid resistant.
 Working hardness: approx. 30 HRC (delivery condition) up to 48 HRC.



Applications
 Mechanical engineering, marine engineering, apparatus engineering, plastic processing, plastic molds, extrusion tools, press molds, fitting tools, shafts, spindles, bolts, pistons, valves, steam valves, water valves, beater bars, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical Instruments.



AISI 420RM – all at a glance!
 Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/420RM

via smartphone/tablet:



303

304

314

316L / 316

316Ti

410

420

420 mod.

420RM

PREMIUM 420RM - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

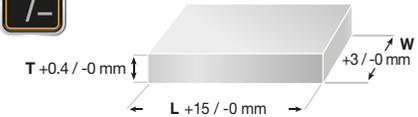
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 325 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.33	0	0	0	0	15.5	0.8	0
0.45	1.0	1.5	0.045	0.03	17.5	1.3	1.0



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Technical Properties

Pre-hardened corrosion resistant chrome-steel with good polishing properties, heat resistance and wear resistance. Often used for processing chemically aggressive plastic materials (e.g. PVC). The material is conditionally acid resistant. Working hardness: approx. 30 HRC (delivery condition) up to 48 HRC.



Applications

Mechanical engineering, marine engineering, apparatus engineering, plastic processing, plastic molds, extrusion tools, press molds, fitting tools, shafts, spindles, bolts, pistons, valves, steam valves, water valves, beater bars, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical Instruments.



AISI 420RM – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/420RM

via smartphone / tablet:



PREMIUM 420RM - \$smart FLAT STOCK METRIC

STAINLESS STEEL

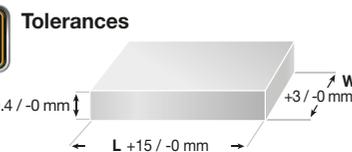
Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Standard values
Delivery condition: maximum 325 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	Ni
0.33	0	0	0	0	15.5	0.8	0
0.45	1.0	1.5	0.045	0.03	17.5	1.3	1.0



Don't see your exact dimension(s)?
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Technical Properties
Pre-hardened corrosion resistant chrome-steel with good polishing properties, heat resistance and wear resistance. Often used for processing chemically aggressive plastic materials (e.g. PVC). The material is conditionally acid resistant.
Working hardness: approx. 30 HRC (delivery condition) up to 48 HRC.



Applications
Mechanical engineering, marine engineering, apparatus engineering, plastic processing, plastic molds, extrusion tools, press molds, fitting tools, shafts, spindles, bolts, pistons, valves, steam valves, water valves, beater bars, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical Instruments.



AISI 420RM – all at a glance!
Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/420RM

via smartphone / tablet:



303

304

314

316L / 316

316Ti

410

420

420 mod.

420RM

PREMIUM 430F - \$mart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

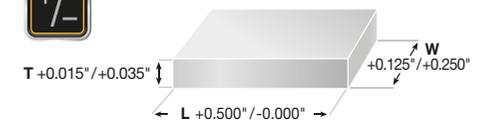
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Available Dimensions [■]															
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 270 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.1	0	0	0	0.15	15.5	0.2
0.17	1.0	1.5	0.04	0.35	17.5	0.3



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties

Martensitic chromium steel with good mechanical properties (tempered condition). The addition of sulphur makes it ideal for machining. It can also be polished very well and is conditionally acid resistant, but difficult to weld.
 Working hardness: approx. 26 HRC (approx. on delivery).



Applications

Automotive industry, electronic equipment, power engineering, mechanical engineering, connecting elements, architecture and decoration, construction parts for automatic machining in water and steam such as screws, spindles, axes, etc.



AISI 430F – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/430F

via smartphone/tablet:



PREMIUM 430F - \$smart FLAT STOCK

STAINLESS STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

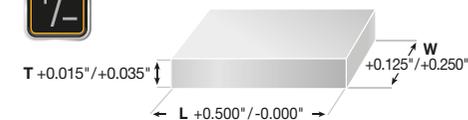
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 270 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.1	0	0	0	0.15	15.5	0.2
0.17	1.0	1.5	0.04	0.35	17.5	0.3



Don't see your exact dimension(s)?

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 - according to your requirements!



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Technical Properties

Martensitic chromium steel with good mechanical properties (tempered condition). The addition of sulphur makes it ideal for machining. It can also be polished very well and is conditionally acid resistant, but difficult to weld.
 Working hardness: approx. 26 HRC (approx. on delivery).



Applications

Automotive industry, electronic equipment, power engineering, mechanical engineering, connecting elements, architecture and decoration, construction parts for automatic machining in water and steam such as screws, spindles, axes, bushings, etc.



AISI 430F – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/430F

via smartphone/tablet:



303

304

314

316L /
316

316Ti

410

420

420 mod.

420RM

430F

PREMIUM 430F - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

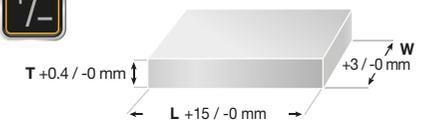
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 270 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.1	0	0	0	0.15	15.5	0.2
0.17	1.0	1.5	0.04	0.35	17.5	0.3



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Technical Properties

Martensitic chromium steel with good mechanical properties (tempered condition). The addition of sulphur makes it ideal for machining. It can also be polished very well and is conditionally acid resistant, but difficult to weld.

Working hardness: approx. 26 HRC (approx. on delivery).



Applications

Automotive industry, electronic equipment, power engineering, mechanical engineering, connecting elements, architecture and decoration, construction parts for automatic machining in water and steam such as screws, spindles, axes, bushings, etc.



AISI 430F – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/430F

via smartphone / tablet:



PREMIUM 430F - \$smart FLAT STOCK METRIC

STAINLESS STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

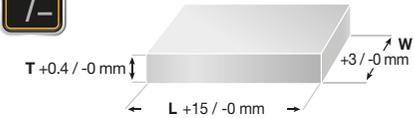
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 270 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.1	0	0	0	0.15	15.5	0.2
0.17	1.0	1.5	0.04	0.35	17.5	0.3



Don't see your exact dimension(s)?

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Technical Properties

Martensitic chromium steel with good mechanical properties (tempered condition). The addition of sulphur makes it ideal for machining. It can also be polished very well and is conditionally acid resistant, but difficult to weld.
Working hardness: approx. 26 HRC (approx. on delivery).



Applications

Automotive industry, electronic equipment, power engineering, mechanical engineering, connecting elements, architecture and decoration, construction parts for automatic machining in water and steam such as screws, spindles, axes, bushings, etc.



AISI 430F – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/430F

via smartphone/tablet:



303

304

314

316L / 316

316Ti

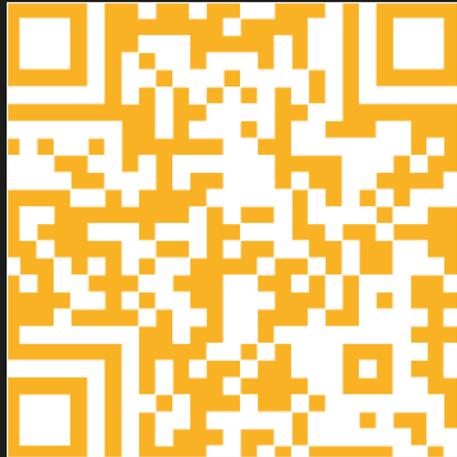
410

420

420 mod.

420RM

430F



WATCH THE MAKING OF THE 9TH MOTIF FOR CALENDAR 2013 / 2016



303

304

314

316L /
316

316Ti

410

420

420 mod.

420RM

430F

ABRAMS - SAME DAY SHIPPING (SUBJECT TO AVAILABILITY)!

ABRAMS!
PREMIUM STEEL

PREMIUM 431 - Smart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

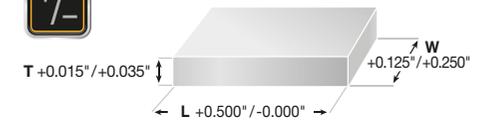
WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[Smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 331 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.12	0	0	0	0	15.0	1.5
0.22	1.0	1.5	0.04	0.03	17.0	2.5



Don't see your exact dimension(s)?

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Technical Properties

Martensitic chromium steel with high strength (tempered condition) and good corrosion resistance (added nickel). It is easy to weld and is conditionally acid resistant. The material has poor forgeability.

Working hardness: approx. 32 HRC (approx. on delivery) to 47 HRC.



Applications

Mechanical engineering, automotive industry, oil and petrochemical industry, aviation, food industry, soap industry, acetic acid industry, shafts, pump parts, perforated plates, spindles, piston rods, valve cones, turbine blades.



AISI 431 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/431

via smartphone/tablet:



PREMIUM 431 - \$smart FLAT STOCK

STAINLESS STEEL

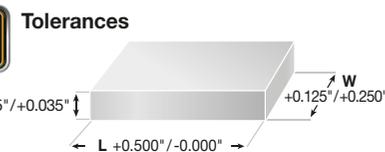
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS															
	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
1"	■	■	■	■	■	■										
1-1/4"	■	■	■	■	■	■	■									
1-1/2"	■	■	■	■	■	■	■	■								
2"	■	■	■	■	■	■	■	■	■							
2-1/2"	■	■	■	■	■	■	■	■	■	■						
3"	■	■	■	■	■	■	■	■	■	■	■					
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■				
4"	■	■	■	■	■	■	■	■	■	■	■	■	■			
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Standard values
 Delivery condition: maximum 331 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.12	0	0	0	0	15.0	1.5
0.22	1.0	1.5	0.04	0.03	17.0	2.5



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 abrams-steel.com/431-11



Technical Properties
 Martensitic chromium steel with high strength (tempered condition) and good corrosion resistance (added nickel). It is easy to weld and is conditionally acid resistant. The material has poor forgeability.
 Working hardness: approx. 32 HRC (approx. on delivery) to 47 HRC.



Applications
 Mechanical engineering, automotive industry, oil and petrochemical industry, aviation, food industry, soap industry, acetic acid industry, shafts, pump parts, perforated plates, spindles, piston rods, valve cones, turbine blades.



AISI 431 – all at a glance!
 Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/431

via smartphone/tablet:

- 303
- 304
- 314
- 316L / 316
- 316Ti
- 410
- 420
- 420 mod.
- 420RM
- 430F
- 431

PREMIUM 431 - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

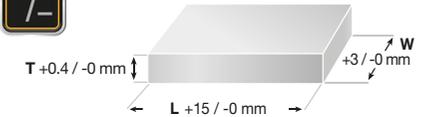
WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 331 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.12	0	0	0	0	15.0	1.5
0.22	1.0	1.5	0.04	0.03	17.0	2.5



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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 - according to your requirements!



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Technical Properties

Martensitic chromium steel with high strength (tempered condition) and good corrosion resistance (added nickel). It is easy to weld and is conditionally acid resistant. The material has poor forgeability.

Working hardness: approx. 32 HRC (approx. on delivery) to 47 HRC.



Applications

Mechanical engineering, automotive industry, oil and petrochemical industry, aviation, food industry, soap industry, acetic acid industry, shafts, pump parts, perforated plates, spindles, piston rods, valve cones, turbine blades.



AISI 431 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/431

via smartphone/tablet:



PREMIUM 431 - \$smart FLAT STOCK METRIC

STAINLESS STEEL

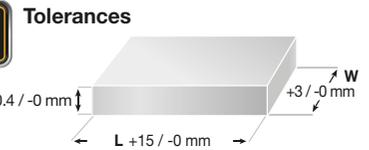
Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS												
	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Standard values
 Delivery condition: maximum 331 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.12	0	0	0	0	15.0	1.5
0.22	1.0	1.5	0.04	0.03	17.0	2.5



Don't see your exact dimension(s)?
 Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties

Martensitic chromium steel with high strength (tempered condition) and good corrosion resistance (added nickel). It is easy to weld and is conditionally acid resistant. The material has poor forgeability.
 Working hardness: approx. 32 HRC (approx. on delivery) to 47 HRC.



Applications

Mechanical engineering, automotive industry, oil and petrochemical industry, aviation, food industry, soap industry, acetic acid industry, shafts, pump parts, perforated plates, spindles, piston rods, valve cones, turbine blades.



AISI 431 – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/431

via smartphone/tablet:



303

304

314

316L / 316

316Ti

410

420

420 mod.

420RM

430F

431

PREMIUM 431 - COLD FINISHED ROUNDS

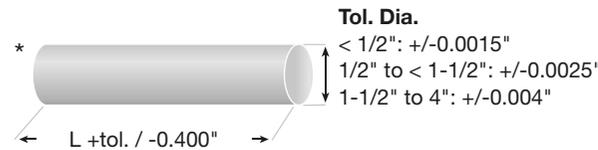
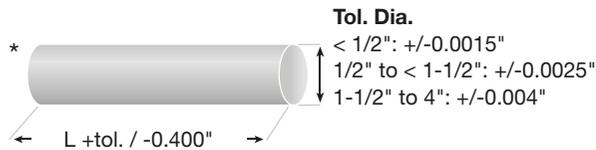
STAINLESS STEEL

Length: **18"**

Length: **36"** **IMPERIAL DIAMETERS in inch**

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●



[CF]: Surface Condition
 Drawn, smooth turned, ground, or ground and polished



Tolerances

See below*



Standard values
 Delivery condition: maximum 331 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.12	0	0	0	0	15.0	1.5
0.22	1.0	1.5	0.04	0.03	17.0	2.5



Don't see your exact dimension(s)?
 Any diameter is available in different lengths (e.g. round blanks).
 Custom orders on request
 - according to your requirements.



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[18"] - abrams-steel.com/431-19
[36"] - abrams-steel.com/431-20



Technical Properties

Martensitic chromium steel with high strength (tempered condition) and good corrosion resistance (added nickel). It is easy to weld and is conditionally acid resistant. The material has poor forgeability.

Working hardness: approx. 32 HRC (approx. on delivery) to 47 HRC.



Applications

Mechanical engineering, automotive industry, oil and petrochemical industry, aviation, food industry, soap industry, acetic acid industry, shafts, pump parts, perforated plates, spindles, piston rods, valve cones, turbine blades.



AISI 431 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/431

via smartphone / tablet:



PREMIUM 431 - DECARB FREE ROUNDS

STAINLESS STEEL

Length: **18"**

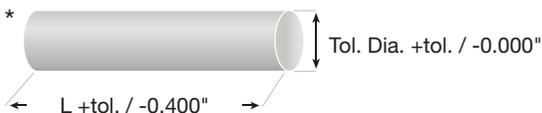
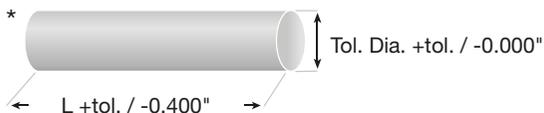
Length: **36"** **IMPERIAL DIAMETERS in inch**

Available Diameters [●]

1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

Available Diameters [●]

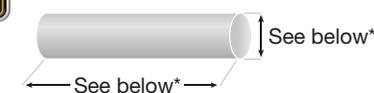
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



[DCF]: Surface Condition
Peeled or rough-turned



Tolerances



Standard values

Delivery condition: maximum 331 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Ni
0.12	0	0	0	0	15.0	1.5
0.22	1.0	1.5	0.04	0.03	17.0	2.5



Don't see your exact dimension(s)?

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[18"] - abrams-steel.com/431-22
[36"] - abrams-steel.com/431-23



Technical Properties

Martensitic chromium steel with high strength (tempered condition) and good corrosion resistance (added nickel). It is easy to weld and is conditionally acid resistant. The material has poor forgeability.

Working hardness: approx. 32 HRC (approx. on delivery) to 47 HRC.



Applications

Mechanical engineering, automotive industry, oil and petrochemical industry, aviation, food industry, soap industry, acetic acid industry, shafts, pump parts, perforated plates, spindles, piston rods, valve cones, turbine blades.



AISI 431 – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/431

via smartphone / tablet:



303

304

314

316L /
316

316Ti

410

420

420 mod.

420RM

430F

431



PRECISION ROUND STEEL WITH MACHINING ALLOWANCE - PEELED / ROUGH TURNED!

ABRAMS!
PREMIUM STEEL

PREMIUM 440B - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

STAINLESS STEEL

Length: 1,000 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS								
	3.2	4.2	5.2	6.2	8.2	10.3	12.3	15.3	20.3
	Available Dimensions [■]								
10.3						■			
12.3							■		
15.3								■	
20.3	■	■	■	■	■	■	■	■	■
25.3	■	■	■	■	■	■	■	■	■
30.3	■	■	■	■	■	■	■	■	
40.3	■	■	■	■	■	■	■		
50.3	■	■	■	■	■	■			
60.3	■	■	■	■	■				
70.3	■	■	■	■	■				
80.3	■	■	■	■					
100.3	■	■	■						
150.3	■								



[GFSM O/S]: Surface Condition

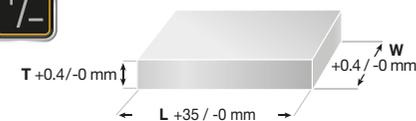
Thickness: ground or fine milled

Width: ground or fine milled

Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 265 BHN

Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.85	0	0	0	0	17.0	0.9	0.07
0.95	1.0	1.0	0.04	0.015	19.0	1.3	0.12



Don't see your exact dimension(s)?

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Technical Properties

Corrosion resistant martensitic chrome-steel (approx. 18% Cr) for cold work. Reaches an unusually high hardness and high wear resistance after heat treatment. Polishable to high gloss and conditionally acid resistant.

Working hardness: 53-58 HRC.



Applications

Cutting tools, knives, knife blades, cutlery, guide rails, wear parts, perforated discs, screw elements, pump shafts, scale pans, horizontal cutting, surgical instruments, plastic molds, injection nozzles, roller bearings, ball bearings, mechanical engineering, food industry, building industry.

303

304

314

316L / 316

316Ti

410

420

420 mod.

420RM

430F

431

440B



AISI 440B – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/440B

via smartphone / tablet:



PREMIUM 440B - \$mart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

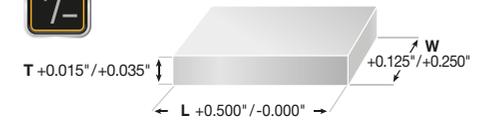
WIDTH	THICKNESS																						
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"		
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 265 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.85	0	0	0	0	17.0	0.9	0.07
0.95	1.0	1.0	0.04	0.015	19.0	1.3	0.12



Don't see your exact dimension(s)?

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Technical Properties

Corrosion resistant martensitic chrome-steel (approx. 18% Cr) for cold work. Reaches an unusually high hardness and high wear resistance after heat treatment. Polishable to high gloss and conditionally acid resistant.
 Working hardness: 53-58 HRC.



Applications

Cutting tools, knives, knife blades, cutlery, guide rails, wear parts, perforated discs, screw elements, pump shafts, scale pans, horizontal cutting, surgical instruments, plastic molds, injection nozzles, roller bearings, ball bearings, mechanical engineering, food industry, building industry.



AISI 440B – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/440B

via smartphone/tablet:



PREMIUM 440B - \$smart FLAT STOCK

STAINLESS STEEL

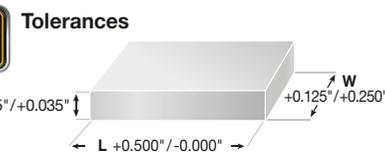
Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS																					
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Standard values
 Delivery condition: maximum 265 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.85	0	0	0	0	17.0	0.9	0.07
0.95	1.0	1.0	0.04	0.015	19.0	1.3	0.12



Don't see your exact dimension(s)?
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Technical Properties
 Corrosion resistant martensitic chrome-steel (approx. 18% Cr) for cold work. Reaches an unusually high hardness and high wear resistance after heat treatment. Polishable to high gloss and conditionally acid resistant.
 Working hardness: 53-58 HRC.



Applications
 Cutting tools, knives, knife blades, cutlery, guide rails, wear parts, perforated discs, screw elements, pump shafts, scale pans, horizontal cutting, surgical instruments, plastic molds, injection nozzles, roller bearings, ball bearings, mechanical engineering, food industry, building industry.



AISI 440B – all at a glance!
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/440B

via smartphone/tablet:

- 303
- 304
- 314
- 316L / 316
- 316Ti
- 410
- 420
- 420 mod.
- 420RM
- 430F
- 431
- 440B

PREMIUM 440B - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

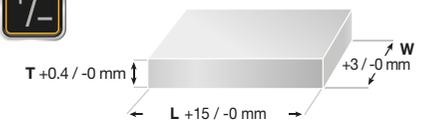
WIDTH	THICKNESS																	
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]																	
33	■	■	■	■	■	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 265 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.85	0	0	0	0	17.0	0.9	0.07
0.95	1.0	1.0	0.04	0.015	19.0	1.3	0.12



Don't see your exact dimension(s)?

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Technical Properties

Corrosion resistant martensitic chrome-steel (approx. 18% Cr) for cold work. Reaches an unusually high hardness and high wear resistance after heat treatment. Polishable to high gloss and conditionally acid resistant.
 Working hardness: 53-58 HRC.



Applications

Cutting tools, knives, knife blades, cutlery, guide rails, wear parts, perforated discs, screw elements, pump shafts, scale pans, horizontal cutting, surgical instruments, plastic molds, injection nozzles, roller bearings, ball bearings, mechanical engineering, food industry, building industry.



AISI 440B – all at a glance!

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/440B

via smartphone / tablet:



PREMIUM 440B - \$smart FLAT STOCK METRIC

STAINLESS STEEL

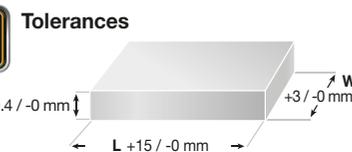
Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS																		
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3	
	Available Dimensions [■]																		
33	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Standard values
Delivery condition: maximum 265 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.85	0	0	0	0	17.0	0.9	0.07
0.95	1.0	1.0	0.04	0.015	19.0	1.3	0.12



Don't see your exact dimension(s)?
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Technical Properties
Corrosion resistant martensitic chrome-steel (approx. 18% Cr) for cold work. Reaches an unusually high hardness and high wear resistance after heat treatment. Polishable to high gloss and conditionally acid resistant.
Working hardness: 53-58 HRC.



Applications
Cutting tools, knives, knife blades, cutlery, guide rails, wear parts, perforated discs, screw elements, pump shafts, scale pans, horizontal cutting, surgical instruments, plastic molds, injection nozzles, roller bearings, ball bearings, mechanical engineering, food industry, building industry.



AISI 440B – all at a glance!
Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/440B

via smartphone / tablet:



303

304

314

316L / 316

316Ti

410

420

420 mod.

420RM

430F

431

440B

PREMIUM 440B - HARD FLAT METRIC

STAINLESS STEEL

Length: 250 mm

METRIC DIMENSIONS in mm

THICKNESS	Available Dimensions [mm]										
	2.2	2.7	3.2	3.7	4.2	4.7	5.2	6.2	7.2	8.2	9.2



Length: 500 mm

METRIC DIMENSIONS in mm

THICKNESS	Available Dimensions [mm]				
	2.2	2.7	3.2	3.7	4.2

Hardened dimensions are delivered with approx. 53 HRC, at least double tempered.



Technical Properties

Corrosion resistant martensitic chrome-steel (approx. 18% Cr) for cold work. Reaches an unusually high hardness and high wear resistance after heat treatment. Polishable to high gloss and conditionally acid resistant.
Working hardness: 53-58 HRC.



Applications

Cutting tools, knives, knife blades, cutlery, guide rails, wear parts, perforated discs, screw elements, pump shafts, scale pans, horizontal cutting, surgical instruments, plastic molds, injection nozzles, roller bearings, ball bearings, mechanical engineering, food industry, building industry.

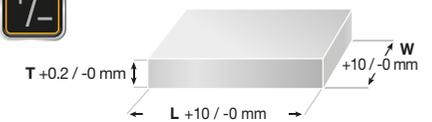


[HardM]: Surface Condition

Thickness: ground or fine milled
Width: saw cut or sheared
Length: saw cut or sheared



Tolerances



Standard values

Delivery condition: maximum 265 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.85	0	0	0	0	17.0	0.9	0.07
0.95	1.0	1.0	0.04	0.015	19.0	1.3	0.12



Don't see your exact dimension(s)?

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[250 mm] - abrams-steel.com/440B-14
[500 mm] - abrams-steel.com/440B-15



AISI 440B – all at a glance!

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abrams-steel.com/440B

via smartphone / tablet:



PREMIUM 440B - COLD FINISHED ROUNDS METRIC

STAINLESS STEEL

Length: **914 mm (36")**

METRIC DIAMETERS in mm

Available Diameters [●]	
10.0	●
12.0	●
14.0	●
15.0	●
16.0	●
20.0	●
25.0	●

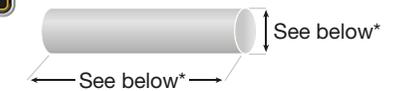


[CFM]: Surface Condition

Drawn, smooth turned, ground, or ground and polished (ISO h9)



Tolerances



Standard values

Delivery condition: maximum 265 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo	V
0.85	0	0	0	0	17.0	0.9	0.07
0.95	1.0	1.0	0.04	0.015	19.0	1.3	0.12



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
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- according to your requirements.



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Technical Properties

Corrosion resistant martensitic chrome-steel (approx. 18% Cr) for cold work. Reaches an unusually high hardness and high wear resistance after heat treatment. Polishable to high gloss and conditionally acid resistant.
Working hardness: 53-58 HRC.



Applications

Cutting tools, knives, knife blades, cutlery, guide rails, wear parts, perforated discs, screw elements, pump shafts, scale pans, horizontal cutting, surgical instruments, plastic molds, injection nozzles, roller bearings, ball bearings, mechanical engineering, food industry, building industry.



AISI 440B – all at a glance!

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ABRAMS STEEL GUIDE for alternatives:
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via smartphone / tablet:



303

304

314

316L / 316

316Ti

410

420

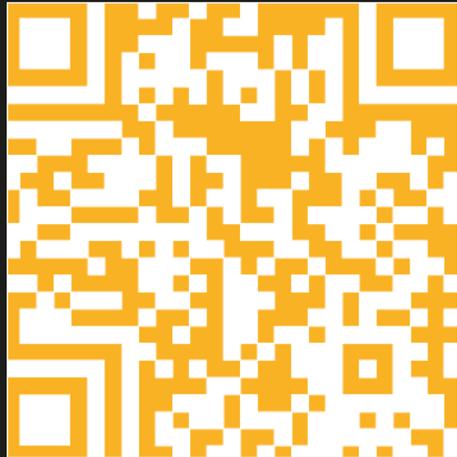
420 mod.

420RM

430F

431

440B



WATCH THE MAKING OF THE 6TH MOTIF FOR CALENDAR 2019 / 2022



303

304

314

316L /
316

316Ti

410

420

420 mod.

420RM

430F

431

440B

ABRAMS - SIMPLY PERFECTION!

ABRAMS
PREMIUM STEEL

PREMIUM 440C - \$mart FLAT STOCK

STAINLESS STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

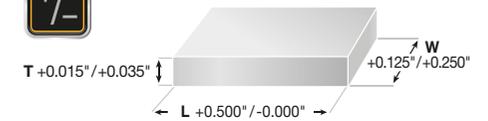
WIDTH	THICKNESS																					
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	
	Available Dimensions [■]																					
1"	■	■	■	■	■	■	■	■	■	■	■											
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■										
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■									
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■								
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■							
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■						
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■					
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 285 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.95	0	0	0	0	16.0	0.4
1.2	1.0	1.0	0.04	0.015	18.0	0.8



Don't see your exact dimension(s)?

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Technical Properties

Stainless, martensitic steel with high hardness and high wear resistance and good cutting power due to the higher carbon content. Compared to the AISI 440B this steel has a slightly higher hardenability at the expense of the corrosion resistance. The material is conditionally acid resistant.
 Working hardness: 57-60 HRC.



Applications

Knives for the food industry, for example frozen food cutters, pork and beef cleaving knives and fish industry knives as well as accessories for meat grinders.



AISI 440C – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/440C

via smartphone / tablet:



PREMIUM 440C - \$mart FLAT STOCK

STAINLESS STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

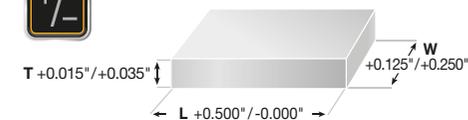
WIDTH	THICKNESS																						
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"		
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 285 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.95	0	0	0	0	16.0	0.4
1.2	1.0	1.0	0.04	0.015	18.0	0.8



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
 Custom orders on request
 - according to your requirements!



Contact us

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Direct access to our online shop

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Technical Properties

Stainless, martensitic steel with high hardness and high wear resistance and good cutting power due to the higher carbon content. Compared to the AISI 440B this steel has a slightly higher hardenability at the expense of the corrosion resistance. The material is conditionally acid resistant.
 Working hardness: 57-60 HRC.



Applications

Knives for the food industry, for example frozen food cutters, pork and beef cleaving knives and fish industry knives as well as accessories for meat grinders.



AISI 440C – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/440C

via smartphone / tablet:



303

304

314

316L /
316

316Ti

410

420

420 mod.

420RM

430F

431

440B

440C

PREMIUM 440C - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: 300 mm

METRIC DIMENSIONS in mm

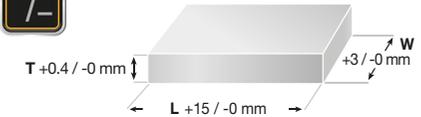
WIDTH	THICKNESS																	
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3
	Available Dimensions [mm]																	
33	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 285 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.95	0	0	0	0	16.0	0.4
1.2	1.0	1.0	0.04	0.015	18.0	0.8



Don't see your exact dimension(s)?

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 - according to your requirements!



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abrams-steel.com/440C-12



Technical Properties

Stainless, martensitic steel with high hardness and high wear resistance and good cutting power due to the higher carbon content. Compared to the AISI 440B this steel has a slightly higher hardenability at the expense of the corrosion resistance. The material is conditionally acid resistant.
 Working hardness: 57-60 HRC.



Applications

Knives for the food industry, for example frozen food cutters, pork and beef cleaving knives and fish industry knives as well as accessories for meat grinders.



AISI 440C – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/440C

via smartphone / tablet:



PREMIUM 440C - \$mart FLAT STOCK METRIC

STAINLESS STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

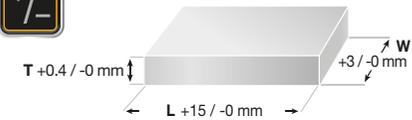
WIDTH	THICKNESS																		
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3	60.3	70.3	80.3	100.3	
33	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 285 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.95	0	0	0	0	16.0	0.4
1.2	1.0	1.0	0.04	0.015	18.0	0.8



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
Custom orders on request
- according to your requirements!



Contact us

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Direct access to our online shop

abrams-steel.com/440C-13



Technical Properties

Stainless, martensitic steel with high hardness and high wear resistance and good cutting power due to the higher carbon content. Compared to the AISI 440B this steel has a slightly higher hardenability at the expense of the corrosion resistance. The material is conditionally acid resistant.
Working hardness: 57-60 HRC.



Applications

Knives for the food industry, for example frozen food cutters, pork and beef cleaving knives and fish industry knives as well as accessories for meat grinders.



AISI 440C – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/440C

via smartphone / tablet:



303

304

314

316L /
316

316Ti

410

420

420 mod.

420RM

430F

431

440B

440C

PREMIUM 440C - COLD FINISHED ROUNDS

STAINLESS STEEL

Length: **18"**

Length: **36"** **IMPERIAL DIAMETERS in inch**

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●

Available Diameters [●]	
1/4"	●
3/8"	●
1/2"	●
5/8"	●
3/4"	●
1"	●
1-1/8"	●
1-1/4"	●
1-3/8"	●
1-1/2"	●
1-3/4"	●
2"	●



[CF]: Surface Condition
 Drawn, smooth turned, ground, or ground and polished



Tolerances

See below*



Standard values
 Delivery condition: maximum 285 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.95	0	0	0	0	16.0	0.4
1.2	1.0	1.0	0.04	0.015	18.0	0.8



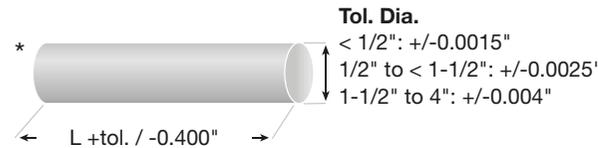
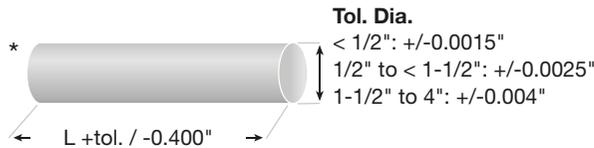
Don't see your exact dimension(s)?
 Any diameter is available in different lengths (e.g. round blanks).
 Custom orders on request
 - according to your requirements.



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Direct access to our online shop
[18"] - abrams-steel.com/440C-19
[36"] - abrams-steel.com/440C-20



Technical Properties
 Stainless, martensitic steel with high hardness and high wear resistance and good cutting power due to the higher carbon content. Compared to the AISI 440B this steel has a slightly higher hardenability at the expense of the corrosion resistance. The material is conditionally acid resistant.
 Working hardness: 57-60 HRC.



Applications
 Knives for the food industry, for example frozen food cutters, pork and beef cleaving knives and fish industry knives as well as accessories for meat grinders.



AISI 440C – all at a glance!
 Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
 abrams-steel.com/440C

via smartphone / tablet:



PREMIUM 440C - DECARB FREE ROUNDS

STAINLESS STEEL

Length: **18"**

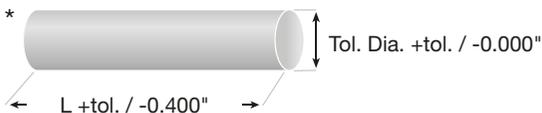
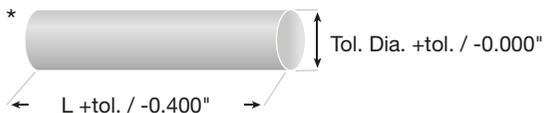
Length: **36"** **IMPERIAL DIAMETERS in inch**

Available Diameters [●]

2-1/2"	●
3"	●
3-1/2"	●
4"	●

Available Diameters [●]

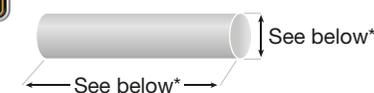
2-1/2"	●
3"	●
3-1/2"	●
4"	●



[DCF]: Surface Condition
Peeled or rough-turned



Tolerances



Standard values

Delivery condition: maximum 285 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.95	0	0	0	0	16.0	0.4
1.2	1.0	1.0	0.04	0.015	18.0	0.8



Don't see your exact dimension(s)?

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Direct access to our online shop

[18"] - abrams-steel.com/440C-22
[36"] - abrams-steel.com/440C-23



Technical Properties

Stainless, martensitic steel with high hardness and high wear resistance and good cutting power due to the higher carbon content. Compared to the AISI 440B this steel has a slightly higher hardenability at the expense of the corrosion resistance. The material is conditionally acid resistant.
Working hardness: 57-60 HRC.



Applications

Knives for the food industry, for example frozen food cutters, pork and beef cleaving knives and fish industry knives as well as accessories for meat grinders.



AISI 440C – all at a glance!

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ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/440C

via smartphone / tablet:



303

304

314

316L /
316

316Ti

410

420

420 mod.

420RM

430F

431

440B

440C

FLATS !

Below are our flats in different categories in imperial as well as metric sizes. Every item is available in different **thickness**, **width** and **length**. On request – specific to your needs!

IMPERIAL



Precision Ground Flat Stock, regular [GFS reg]

For example: 3/4" x 4" x 36" reg

- **Thickness** ground, tol. +/-0.001"
- **Width** ground or fine milled, tol. +0.005" / -0.000"
- **Length** milled or saw cut, tol. +0.125" / +0.500"



Precision Ground Flat Stock, oversize [GFS O/S]

For example: 3/4" x 4" x 36" O/S

- **Thickness** ground, tol. +0.010" / +0.015"
- **Width** ground or fine milled, tol. +0.010" / +0.015"
- **Length** milled or saw cut, tol. +0.125" / +0.500"



\$mart Flat Stock [\$mart] Standardized Precision Blanks

For example: 3/4" x 4" x 24"

- **Thickness** ground or fine milled, tol. +0.015" / +0.035"
- **Width** saw cut, tol. +0.125" / +0.250"
- **Length** saw cut, tol. +0.500" / -0.000"



EDM Block hardened [EDM]

For example: 1/2" x 4" x 4"

- **Thickness** ground or fine milled, tol. +0.010" / -0.000"
- Square dimension ground or fine milled, tol. min. +0.0125"
- Grain structure is perpendicular in relation to top & bottom.

METRIC



Precision Ground Flat Stock Metric, regular [GFSM reg] acc. to DIN* 59350

For example: 20.0 x 100.0 x 1,000 mm

- **Thickness** ground or fine milled, tol. +0.05 / -0 mm
 - **Width** ground or fine milled, tol. +0.2 / -0 mm
 - **Length** milled or saw cut, tol. +35 / -0 mm
- Exception: AISI 1045: **T** +0.25 / -0 mm; **W** +0.4 / -0 mm



Precision Ground Flat Stock Metric, oversize [GFSM O/S]

For example: 20.3 x 100.3 x 1,000 mm

- **Thickness** ground or fine milled, tol. +0.4 / -0 mm
- **Width** ground or fine milled, tol. +0.4 / -0 mm
- **Length** milled or saw cut, tol. +35 / -0 mm



\$mart Flat Stock Metric [\$martM] Standardized Precision Blanks Metric

For example: 20.3 x 103 x 600 mm

- **Thickness** ground or fine milled, tol. +0.4 / -0 mm
- **Width** saw cut, tol. +3 / -0 mm
- **Length** saw cut, tol. +15 / -0 mm



Hard Flat Metric [HardM] Hardened Standardized Blanks Metric

For example: 10.2 x 250 x 500 mm

- **Thickness** ground or fine milled, tol. +0.2 / -0 mm
- **Width** saw cut or sheared, tol. +10 / -0 mm
- **Length** saw cut or sheared, tol. +10 / -0 mm

Flatness tolerance: +0.2 / -0 mm across the item (aimed for)

*DIN: DEUTSCHE INDUSTRIE NORM (GERMAN INDUSTRY STANDARD) !

Precision ground flat stock is a bar with a sharp-edged, rectangular or square cross-section made of tool steel with finely machined, decarburization-free longitudinal surfaces. In Germany, it is standardized in DIN 59350. Precision ground flat stock is used primarily as a semi-finished product in machine, tool, fixture and mold construction.

For more details on our shapes see: us.abrams-industries.com/product-overview



ROUNDS !

Below are our rounds in different categories in imperial as well as metric sizes.

Any item is available in different **diameters** and / or **length**. On request – specific to your needs!

IMPERIAL



Drill Rod [DR] Precision Round Bars

For example: DR 3/4" x 36"

Turned, ground & polished (TGP)

- Tol. Dia. < 1/8": +/-0.0003", L +0.125" / -0.000"
- Tol. Dia. 1/8" to < 1/2": +/-0.0005", L +0.125" / -0.000"
- Tol. Dia. 1/2" to 2": +/-0.001", L +0.125" / -0.000"



Cold Finished Rounds [CF] Precision Round Bars

For example: CF 3/4" x 36"

Drawn, smooth turned, ground, or ground and polished

- Tol. Dia. < 1/2": +/-0.0015", L +tol. / -0.400"
- Tol. Dia. 1/2" to < 1-1/2": +/-0.0025", L +tol. / -0.400"
- Tol. Dia. 1-1/2" to 4": +/-0.004", L +tol. / -0.400"

These are maximum tolerances. For more exact tolerances call our sales team.



Decarb Free Rounds [DCF] Oversize Round Bars

For example: DCF 3/4" x 36"

Peeled or rough-turned

- Tol. Dia. min. +0.010", L +tol. / -0.400"
- Exception: 4XX Series stainless steel, tol. Dia. +tol. / -0.000", L +tol. / -0.400"

These steel rounds are oversized to finish to nominal diameter.

METRIC



Drill Rod Metric [DRM] Precision Round Bars Metric

For example: DRM 10.0 mm x 914 mm (36")

Turned, ground & polished (TGP) - ISO h9

- Tol. Dia. ≤ 10.0 mm: +0 / -0.036 mm, L +tol.
- Tol. Dia. > 10.0 mm to 18.0 mm: +0 / -0.043 mm, L +tol.
- Tol. Dia. > 18.0 mm to 25.0 mm: +0 / -0.052 mm, L +tol.

These are maximum tolerances. For more exact tolerances call our sales team.



Cold Finished Rounds Metric [CFM] Precision Round Bars Metric

For example: CFM 10.0 mm x 914 mm (36")

Drawn, smooth turned, ground, or ground and polished (ISO h9)

- Tol. Dia. ≤ 10.0 mm: +0 / -0.036 mm, L +tol.
- Tol. Dia. > 10.0 mm to 18.0 mm: +0 / -0.043 mm, L +tol.
- Tol. Dia. > 18.0 mm to 25.0 mm: +0 / -0.052 mm, L +tol.

These are maximum tolerances. For more exact tolerances call our sales team.

STEEL CATEGORIES !

Steel grades are classified by their **technical properties** and/or by their **intended use**.

For example: Cold work steel, hot work steel, plastic mold steel, high speed steel, corrosion resistant steel or case hardening steel.

Steel grades are often assigned to several classification groups.

For more details on our shapes see: us.abrams-industries.com/product-overview





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THE COVER MOTIF FOR
CALENDAR 2016 / 2019



ABRAMS PREMIUM HEAT-TREATABLE AND CASE HARDENING STEEL!

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PREMIUM STEEL

**HEAT-TREATABLE STEEL,
CASE HARDENING STEEL**

STEEL GRADE - AISI

	GFS reg 18" , 36"	GFS O/S 18" , 36"	GFS reg 24"	GFSM reg 500 mm, 1,000 mm	GFSM O/S 500 mm, 1,000 mm	\$mart 12" , 24"	\$martM 300 mm, 600 mm	HardM 250 mm, 500 mm	EDM (hardened)	DR 36"	DRM 914 mm (36")	CF 18" , 36"	CFM 914 mm (36")	DCF 18" , 36"	Max. delivery hardness (annealed / pre-hardened) [BHN]	Delivery hardness (hardened) approx. [HRC]	Tensile strength (deliv. cond.) approx. [KSI]	Max. working hardness [HRC]	Cold Work Steel	Hot Work Steel	Plastic Mold Steel	High Speed Steel	Stainless Steel, corrosion resistant	Stainless Steel, acid resistant	Heat-Treatable Steel	Case Hardening Steel
PREMIUM 4140 / 4142				✓	✓									217	104.4	48	✓						✓			
PREMIUM 4140 PH / 4142 PH	✓			✓	✓			✓				✓		380	188.5	48	✓						✓			
PREMIUM 5115				✓	✓	✓								217	104.4	60	✓	✓						✓		



IMPERIAL

- Precision Ground Flat Stock, regular [GFS reg]
- Precision Ground Flat Stock, oversize [GFS O/S]
- \$mart Flat Stock [\$mart] - Standardized Precision Blanks
- EDM Block hardened [EDM]
- Drill Rod [DR] - Precision Round Bars
- Cold Finished Rounds [CF] - Precision Round Bars
- Decarb Free Rounds [DCF] - Oversize Round Bars



METRIC

- Precision Ground Flat Stock Metric, regular [GFSM reg] - acc. to DIN* 59350
- Precision Ground Flat Stock Metric, oversize [GFSM O/S]
- \$mart Flat Stock Metric [\$martM] - Standardized Precision Blanks Metric
- Hard Flat Metric [HardM] - Hardened Standardized Blanks Metric
- Drill Rod Metric [DRM] - Precision Round Bars Metric
- Cold Finished Rounds Metric [CFM] - Precision Round Bars Metric
- *DIN: Deutsche Industrie Norm (German Industry Standard)



PREMIUM 4140 / 4142 - \$smart FLAT STOCK

HEAT-TREATABLE STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

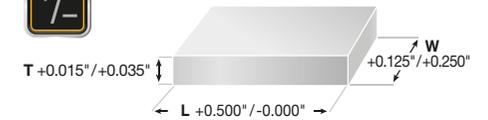
WIDTH	THICKNESS													
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
	Available Dimensions [■]													
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



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Technical Properties

Heat-treatable steel (annealed condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.

Working hardness: 27-48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.



AISI 4140 / 4142 – all at a glance!

Datasheets, online shop,
 ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/4140

via smartphone / tablet:



PREMIUM 4140 / 4142 - \$smart FLAT STOCK

HEAT-TREATABLE STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS													
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
	Available Dimensions [■]													
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■	■	■

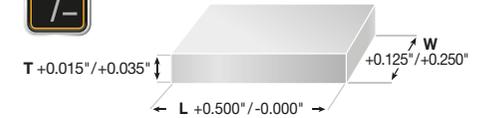


[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut

4140 / 4142



Tolerances



Standard values

Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



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Technical Properties

Heat-treatable steel (annealed condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.
 Working hardness: 27-48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.



AISI 4140 / 4142 – all at a glance!

Datasheets, online shop,
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via smartphone / tablet:



PREMIUM 4140 / 4142 - \$mart FLAT STOCK METRIC

HEAT-TREATABLE STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

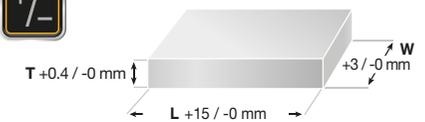
WIDTH	THICKNESS													
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
	Available Dimensions [mm]													
33	■	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



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Technical Properties

Heat-treatable steel (annealed condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.
 Working hardness: 27-48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.



AISI 4140 / 4142 – all at a glance!

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PREMIUM 4140 / 4142 - \$mart FLAT STOCK METRIC

HEAT-TREATABLE STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

WIDTH	THICKNESS													
	2.3	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
Available Dimensions [mm]														
33	■	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■	■

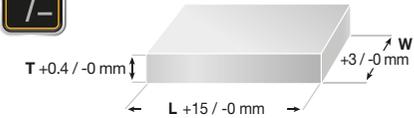


[\$martM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut

4140 / 4142



Tolerances



Standard values

Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



Don't see your exact dimension(s)?

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Technical Properties

Heat-treatable steel (annealed condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.
 Working hardness: 27-48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.



AISI 4140 / 4142 – all at a glance!

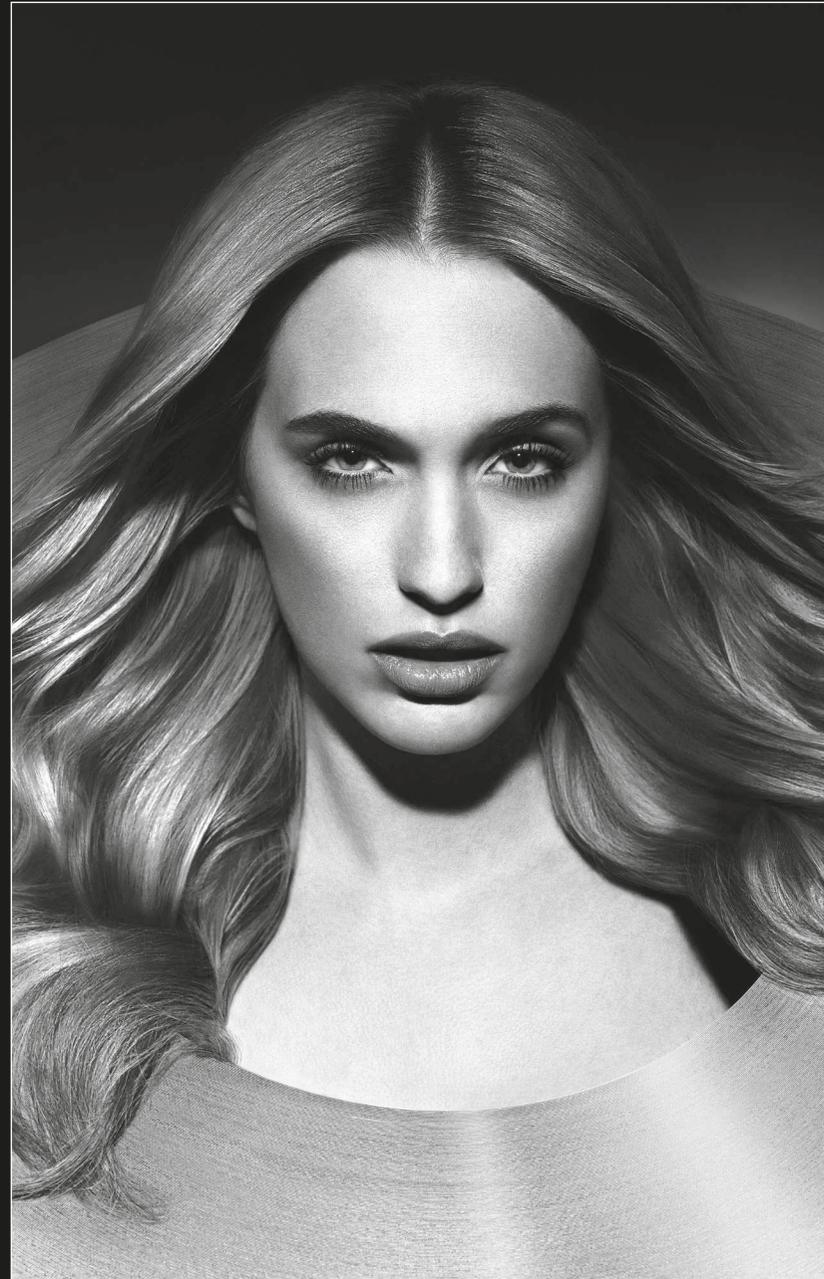
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WATCH THE MAKING OF THE 11TH MOTIF FOR CALENDAR 2013 / 2016



4140 /
4142

ABRAMS - THE POWER OF STEEL GRADE VARIETY!

ABRAMS |
PREMIUM STEEL

PREMIUM 4140 PH / 4142 PH - PRECISION GROUND FLAT STOCK, REGULAR

HEAT-TREATABLE STEEL

Length: 18"

IMPERIAL DIMENSIONS in inch

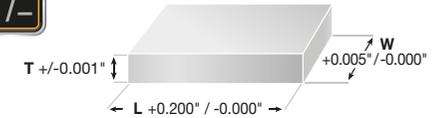
WIDTH	THICKNESS											
	1/16"	3/32"	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	
	Available Dimensions [■]											
3/16"				■								
1/4"					■							
5/16"						■						
3/8"				■	■	■	■	■				
1/2"	■	■	■	■	■	■	■	■				
5/8"			■	■	■	■	■	■	■			
3/4"	■	■	■	■	■	■	■	■	■	■		
1"	■	■	■	■	■	■	■	■	■	■	■	
1-1/4"			■	■	■	■	■	■	■	■	■	
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	
1-3/4"			■	■	■	■	■	■	■	■	■	
2"	■	■	■	■	■	■	■	■	■	■	■	
2-1/2"			■	■	■	■	■	■	■	■	■	
3"	■	■	■	■	■	■	■	■	■	■	■	
3-1/2"			■	■	■	■	■	■	■	■	■	
4"	■	■	■	■	■	■	■	■	■	■	■	
5"			■	■	■	■	■	■	■	■	■	
6"			■	■	■	■	■	■	■	■	■	
8"					■	■	■	■	■	■	■	
10"					■	■	■	■	■	■	■	



[GFS reg]: Surface Condition
Thickness: ground
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 380 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties

Heat-treatable steel (tempered condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.

Working hardness: 27 (min. hardness/delivery condition) - 48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.



AISI 4140 PH / 4142 PH

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/4140PH

via smartphone / tablet:



PREMIUM 4140 PH / 4142 PH - PRECISION GROUND FLAT STOCK, REGULAR

HEAT-TREATABLE STEEL

Length: **36"**

IMPERIAL DIMENSIONS in inch

WIDTH	THICKNESS											
	1/16"	3/32"	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	
	Available Dimensions [■]											
3/16"				■								
1/4"					■							
5/16"						■						
3/8"			■	■	■	■	■					
1/2"	■	■	■	■	■	■	■	■				
5/8"			■	■	■	■	■	■	■			
3/4"	■	■	■	■	■	■	■	■	■	■		
1"	■	■	■	■	■	■	■	■	■	■	■	
1-1/4"			■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■
1-3/4"			■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"			■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"			■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■
5"			■	■	■	■	■	■	■	■	■	■
6"			■	■	■	■	■	■	■	■	■	■
8"					■	■	■	■	■	■	■	■
10"					■	■	■	■	■	■	■	■

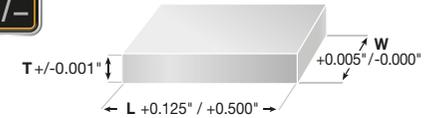


[GFS reg]: Surface Condition

Thickness: ground
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 380 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties

Heat-treatable steel (tempered condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.

Working hardness: 27 (min. hardness/delivery condition) - 48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.

4140 /
4142

4140 PH /
4142 PH



AISI 4140 PH / 4142 PH

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/4140PH

via smartphone/tablet:



PREMIUM 4140 PH / 4142 PH - \$smart FLAT STOCK

HEAT-TREATABLE STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

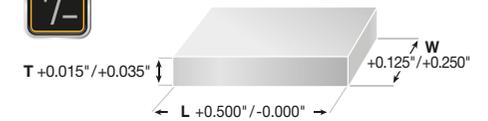
WIDTH	THICKNESS												
	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
	Available Dimensions [■]												
1"	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 380 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths. Custom orders on request - according to your requirements!



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Technical Properties

Heat-treatable steel (tempered condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.

Working hardness: 27 (min. hardness/delivery condition) - 48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.



AISI 4140 PH / 4142 PH

Datasheets, online shop, ABRAMS STEEL GUIDE for alternatives: abrams-steel.com/4140PH

via smartphone / tablet:



PREMIUM 4140 PH / 4142 PH - \$smart FLAT STOCK

HEAT-TREATABLE STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

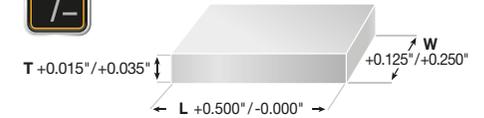
WIDTH	THICKNESS												
	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
	Available Dimensions [■]												
1"	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 380 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0.	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



Don't see your exact dimension(s)?

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Technical Properties

Heat-treatable steel (tempered condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.

Working hardness: 27 (min. hardness/delivery condition) - 48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.



AISI 4140 PH / 4142 PH

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via smartphone / tablet:



4140 /
4142

4140 PH /
4142 PH

PREMIUM 4140 PH / 4142 PH - \$smart FLAT STOCK METRIC

HEAT-TREATABLE STEEL

Length: 300 mm

METRIC DIMENSIONS in mm

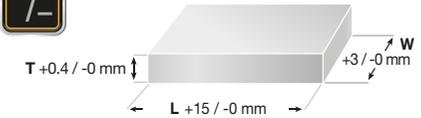
WIDTH	THICKNESS												
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$smartM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 380 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



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Technical Properties

Heat-treatable steel (tempered condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.

Working hardness: 27 (min. hardness/delivery condition) - 48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.



AISI 4140 PH / 4142 PH

Datasheets, online shop,
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PREMIUM 4140 PH / 4142 PH - \$mart FLAT STOCK METRIC

HEAT-TREATABLE STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

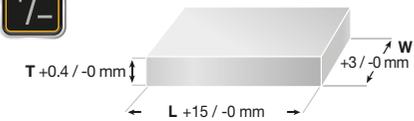
WIDTH	THICKNESS												
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 380 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



Don't see your exact dimension(s)?

Any size is available in different thicknesses, widths and/or lengths.
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Technical Properties

Heat-treatable steel (tempered condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.

Working hardness: 27 (min. hardness/delivery condition) - 48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.



AISI 4140 PH / 4142 PH

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via smartphone / tablet:



4140 /
4142

4140 PH /
4142 PH

PREMIUM 4140 PH / 4142 PH - DRILL ROD

HEAT-TREATABLE STEEL

Length: **36"**

IMPERIAL DIAMETERS in inch

Available Diameters [●]	
1/8"	●
3/16"	●
1/4"	●
9/32"	●
5/16"	●
3/8"	●
7/16"	●
1/2"	●
9/16"	●
5/8"	●
11/16"	●
3/4"	●
13/16"	●
7/8"	●
15/16"	●
1"	●



[DR]: Surface Condition
Turned, ground & polished (TGP)



Tolerances

See below*
See below*



Standard values
Delivery condition: maximum 380 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



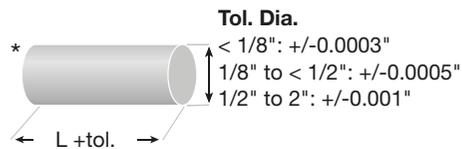
Don't see your exact dimension(s)?
Any diameter is available in different lengths (e.g. round blanks).
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- according to your requirements.



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Technical Properties

Heat-treatable steel (tempered condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.

Working hardness: 27 (min. hardness/delivery condition) - 48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.



! AISI 4140 PH / 4142 PH

Datasheets, online shop,
ABRAMS STEEL GUIDE for alternatives:
abrams-steel.com/4140PH

via smartphone / tablet:



PREMIUM 4140 PH / 4142 PH - DECARB FREE ROUNDS

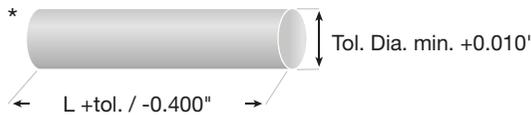
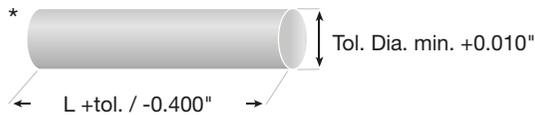
HEAT-TREATABLE STEEL

Length: **18"**

Length: **36"** **IMPERIAL DIAMETERS in inch**

Available Diameters [●]	
1"	●
1-1/4"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●

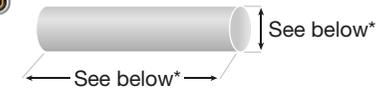
Available Diameters [●]	
1"	●
1-1/4"	●
1-1/2"	●
1-3/4"	●
2"	●
2-1/2"	●
3"	●
3-1/2"	●
4"	●



[DCF]: Surface Condition
Peeled or rough-turned



Tolerances



Standard values

Delivery condition: maximum 380 BHN
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0.38	0	0.6	0	0	0.9	0.15
0.45	0.4	0.9	0.035	0.035	1.2	0.3



Don't see your exact dimension(s)?

Any diameter is available in different lengths (e.g. round blanks).
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[18"] - abrams-steel.com/4140PH-22
[36"] - abrams-steel.com/4140PH-23



Technical Properties

Heat-treatable steel (tempered condition) that can be used for a wide range of applications with a high degree of strength and toughness. Often used for demanding applications in automotive engineering. In quenched and tempered condition it is used in machine construction.

Working hardness: 27 (min. hardness/delivery condition) - 48 HRC.



Applications

Mechanical engineering, machine parts, axes, knuckles, connecting rods, crankshafts, gear shafts, pinions, gears, bandages, base plates, assembly parts.



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PREMIUM 5115 - PRECISION GROUND FLAT STOCK METRIC, OVERSIZE

CASE HARDENING STEEL

Length: 1,000 mm

METRIC DIMENSIONS in mm

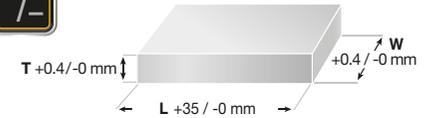
WIDTH	THICKNESS					
	8.2	10.3	12.3	15.3	16.3	20.3
Available Dimensions [■]						
15.3				■		
20.3	■	■	■	■	■	■
25.3	■	■	■	■	■	■
30.3	■	■	■	■	■	■
32.3	■	■	■	■	■	
40.3	■	■	■			
50.3	■	■				
60.3	■					
70.3	■					



[GFSM O/S]: Surface Condition
Thickness: ground or fine milled
Width: ground or fine milled
Length: milled or saw cut



Tolerances



Standard values

Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.14	0	1.0	0	0	0.8
0.19	0.4	1.3	0.025	0.035	1.1



Don't see your exact dimension(s)?

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Technical Properties

Cold work and plastic mold steel (group of case hardening steel) with the objective of high surface hardness with core toughness. Excellent machinability, good cold hobbing and polishing properties. The tensile strength is a result of the combination of hardened surface and tough core.
 Working hardness (surface): 58-60 HRC.



Applications

Mechanical engineering, jig construction, plant engineering, apparatus engineering, plastic processing, plastic molds, synthetic resin molds, base plates, bending bars, guide columns, gear parts, joint parts, shafts, gears, rods, bevel gears, crown wheels, piston pins, camshafts, bolts, pins, universal joints.



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PREMIUM 5115 - \$mart FLAT STOCK

CASE HARDENING STEEL

Length: 12"

IMPERIAL DIMENSIONS in inch

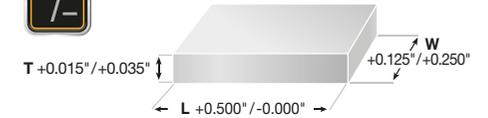
WIDTH	THICKNESS													
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
	Available Dimensions [■]													
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.14	0	1.0	0	0	0.8
0.19	0.4	1.3	0.025	0.035	1.1



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Technical Properties

Cold work and plastic mold steel (group of case hardening steel) with the objective of high surface hardness with core toughness. Excellent machinability, good cold hobbing and polishing properties. The tensile strength is a result of the combination of hardened surface and tough core.
 Working hardness (surface): 58-60 HRC.



Applications

Mechanical engineering, jig construction, plant engineering, apparatus engineering, plastic processing, plastic molds, synthetic resin molds, base plates, bending bars, guide columns, gear parts, joint parts, shafts, gears, rods, bevel gears, crown wheels, piston pins, camshafts, bolts, pins, universal joints.



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PREMIUM 5115 - \$mart FLAT STOCK

CASE HARDENING STEEL

Length: 24"

IMPERIAL DIMENSIONS in inch

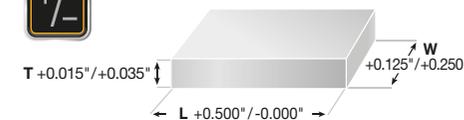
WIDTH	THICKNESS													
	3/32"	1/8"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
	Available Dimensions [■]													
1"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11-1/2"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
13"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
14"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
15"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
16"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
17"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
18"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
19"	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20"	■	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$mart]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.14	0	1.0	0	0	0.8
0.19	0.4	1.3	0.025	0.035	1.1



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Technical Properties

Cold work and plastic mold steel (group of case hardening steel) with the objective of high surface hardness with core toughness. Excellent machinability, good cold hobbing and polishing properties. The tensile strength is a result of the combination of hardened surface and tough core.
 Working hardness (surface): 58-60 HRC.



Applications

Mechanical engineering, jig construction, plant engineering, apparatus engineering, plastic processing, plastic molds, synthetic resin molds, base plates, bending bars, guide columns, gear parts, joint parts, shafts, gears, rods, bevel gears, crown wheels, piston pins, camshafts, bolts, pins, universal joints.



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PREMIUM 5115 - \$mart FLAT STOCK METRIC

CASE HARDENING STEEL

Length: **300 mm**

METRIC DIMENSIONS in mm

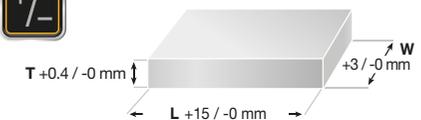
WIDTH	THICKNESS												
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
	Available Dimensions [mm]												
33	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$martM]: Surface Condition
Thickness: ground or fine milled
Width: saw cut
Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.14	0	1.0	0	0	0.8
0.19	0.4	1.3	0.025	0.035	1.1



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Technical Properties

Cold work and plastic mold steel (group of case hardening steel) with the objective of high surface hardness with core toughness. Excellent machinability, good cold hobbing and polishing properties. The tensile strength is a result of the combination of hardened surface and tough core.
 Working hardness (surface): 58-60 HRC.



Applications

Mechanical engineering, jig construction, plant engineering, apparatus engineering, plastic processing, plastic molds, synthetic resin molds, base plates, bending bars, guide columns, gear parts, joint parts, shafts, gears, rods, bevel gears, crown wheels, piston pins, camshafts, bolts, pins, universal joints.



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PREMIUM 5115 - \$mart FLAT STOCK METRIC

CASE HARDENING STEEL

Length: 600 mm

METRIC DIMENSIONS in mm

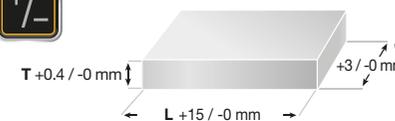
WIDTH	THICKNESS												
	3.3	4.3	5.3	6.3	8.3	10.3	12.3	15.3	20.3	25.3	30.3	40.3	50.3
	Available Dimensions [■]												
33	■	■	■	■	■	■	■	■	■	■	■	■	■
43	■	■	■	■	■	■	■	■	■	■	■	■	■
53	■	■	■	■	■	■	■	■	■	■	■	■	■
63	■	■	■	■	■	■	■	■	■	■	■	■	■
73	■	■	■	■	■	■	■	■	■	■	■	■	■
83	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■



[\$SmartM]: Surface Condition
 Thickness: ground or fine milled
 Width: saw cut
 Length: saw cut



Tolerances



Standard values

Delivery condition: maximum 217 BHN
 Chemical composition:

C	Si	Mn	P	S	Cr
0.14	0	1.0	0	0	0.8
0.19	0.4	1.3	0.025	0.035	1.1



Don't see your exact dimension(s)?

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Technical Properties

Cold work and plastic mold steel (group of case hardening steel) with the objective of high surface hardness with core toughness. Excellent machinability, good cold hobbing and polishing properties. The tensile strength is a result of the combination of hardened surface and tough core.
 Working hardness (surface): 58-60 HRC.



Applications

Mechanical engineering, jig construction, plant engineering, apparatus engineering, plastic processing, plastic molds, synthetic resin molds, base plates, bending bars, guide columns, gear parts, joint parts, shafts, gears, rods, bevel gears, crown wheels, piston pins, camshafts, bolts, pins, universal joints.



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Information Regarding Our Product Catalog

ABRAMS Industries Inc. serves all of the U.S.A..

This product catalog provides all the available size grade combinations of our 44 different PREMIUM steel grades, as well as an overview of their technical properties and possible applications to guide you to the most appropriate grade for your usage.

Pricing

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NO Minimum Order Value (\$)

No matter how small your order - you only pay for the product, we never add extra charges to meet a minimum order value.

NO Minimum Order Quantity (# or pieces)

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- Save 1%, if payment is posted within 10 days from invoice date.
- Net 30 days from invoice date.

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ABRAMS offers three payment options:

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United States of America

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PREMIUM STEEL

ABRAMS!

PREMIUM STEEL!

A2	L6					410		
A8 mod./ Chipper	O1	Toolox 33	420 ESR			420		
D2	P20	Toolox 44	420 LC		303	420 mod.		
H10	P20 PH	W1	420FM		304	420RM		
H13	P20+Ni	1018/A36	5120		304	430F		
H13 ESR	S1	1045	52100/ L1	HSS M2	314	431	4140/ 4142	
L3	S7	2990mod.	6F7 ESR	HSS PM M4 HC	316L/ 316	440B	4140 PH/ 4142 PH	
					316Ti	440C	5115	

- + **44 STEEL GRADES**
 - + **MORE THAN 53,000 ITEMS**
 - + **As Flats and Rounds**
 - + **In Imperial and Metric sizes**
 - + Precision Ground Flat Stock, regular / oversize
 - + \$mart Flat Stock - Standardized Precision Blanks
 - + Hard Flat Metric - Hardened Standardized Blanks
 - + EDM Block hardened
 - + Drill Rod - Precision Round Bars
 - + Cold Finished Rounds - Precision Round Bars
 - + Decarb Free Rounds - Oversize Round Bars
 - + **NO MINIMUM ORDER VALUE**
 - + **NO MINIMUM ORDER QUANTITY**
 - + **SPECIALS ON REQUEST**
 - + **SAME DAY SHIPPING (SUBJECT TO AVAILABILITY)**
 - + **FROM OUR PRODUCTION SITE / WAREHOUSE IN ILLINOIS, U.S.A.**
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- = SUM OF YOUR COMPETITIVE ADVANTAGES!**

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