



ABRAMS
PREMIUM STEEL



PRECISION GROUND FLAT STOCK, reg, O/S

\$MART FLAT STOCK

HARD FLAT

EDM BLOCK HARDENED

DRILL ROD

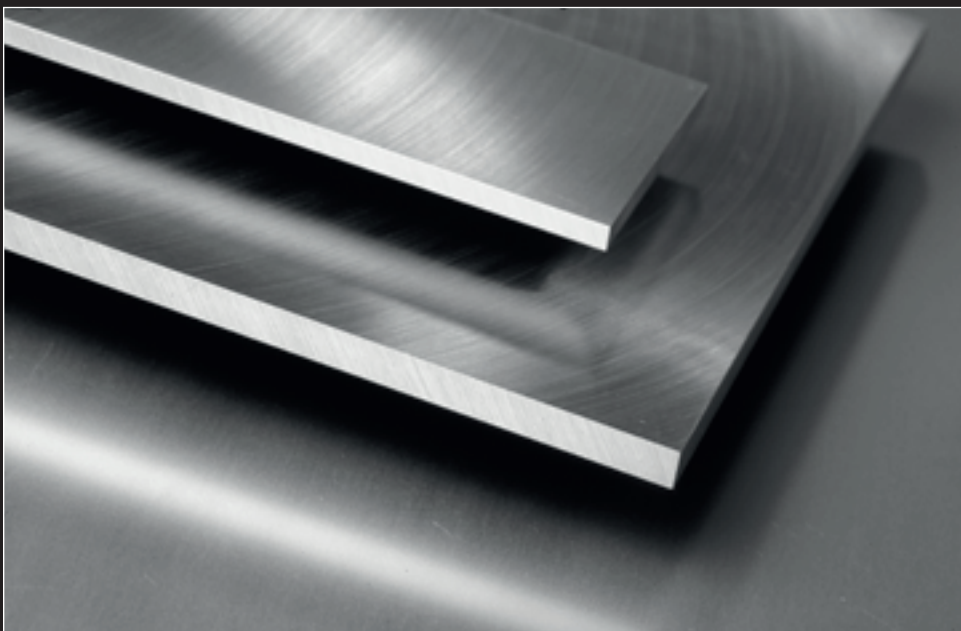
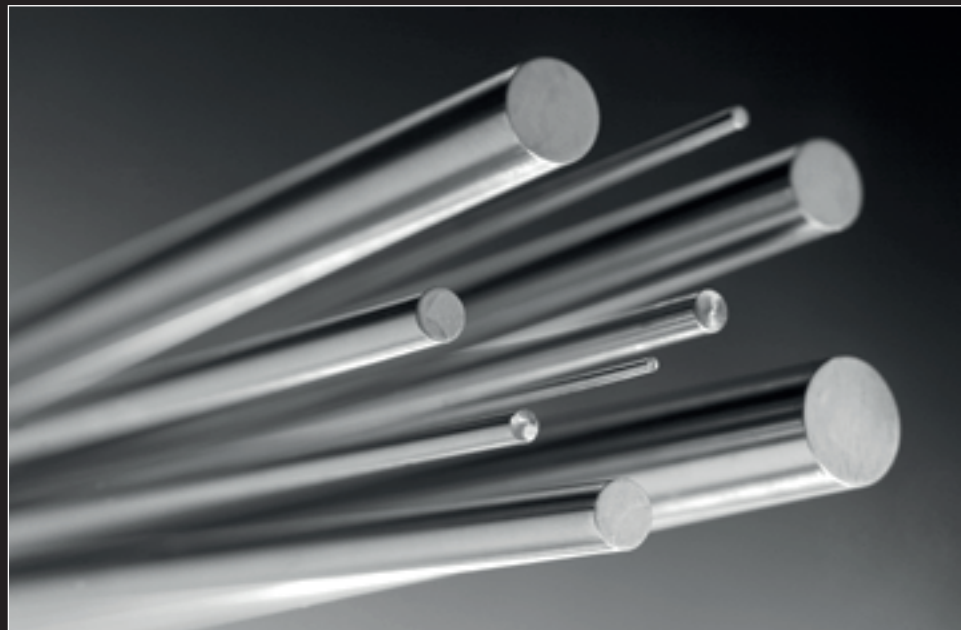
COLD FINISHED ROUNDS

DECARB FREE ROUNDS

THE POWER OF VERSATILITY!

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		314	431	4140 / 4142
L3	S7	2990 mod.	6F7 ESR	HSS PM M4 HC		316L / 316	440B	4140 PH / 4142 PH
						316Ti	440C	5115

CONTACT US: +1 (331) 234-9900 or sales@abrams-industries.com



ABRAMS PREMIUM FLATS, ROUNDS, PLATES 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:



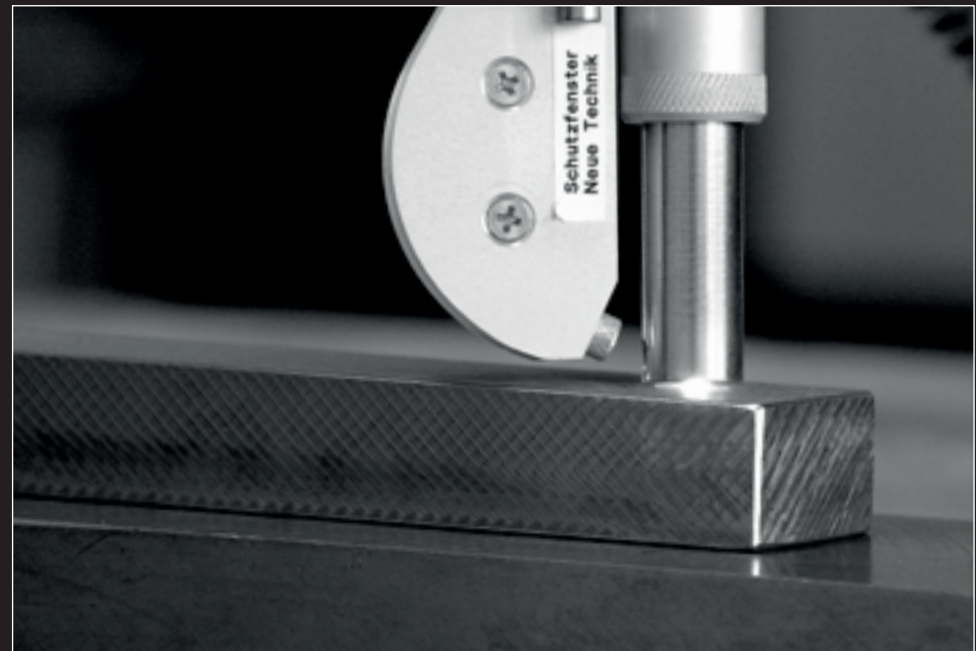
① **AGILITY**

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.

QUALITY !

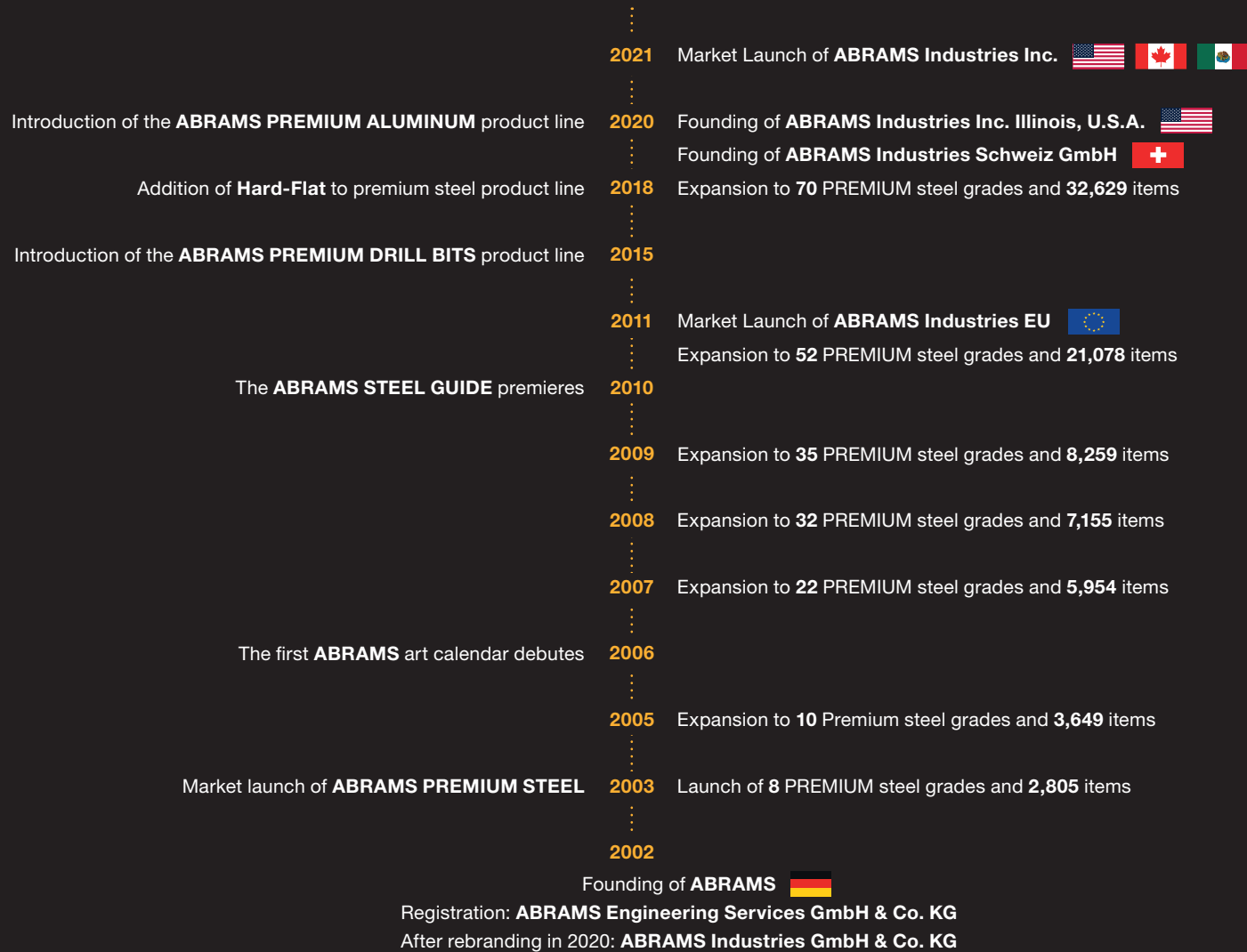


③ PREMIUM QUALITY

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

CONSTANTLY EVOLVING !

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



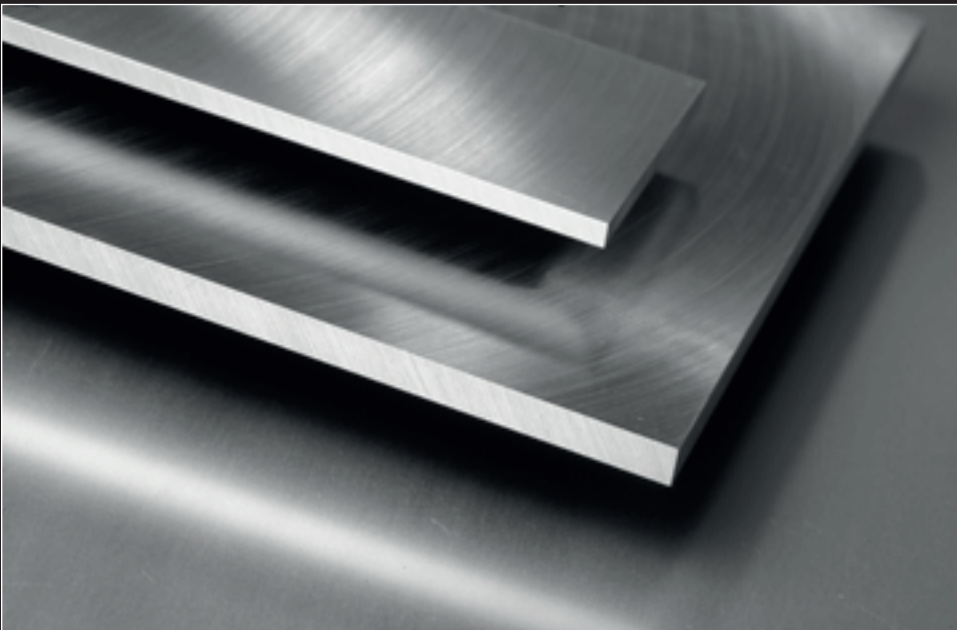
TOOL STEEL

HIGH SPEED STEEL

STAINLESS STEEL

HEAT-TREATABLE STEEL

CASE HARDENING STEEL

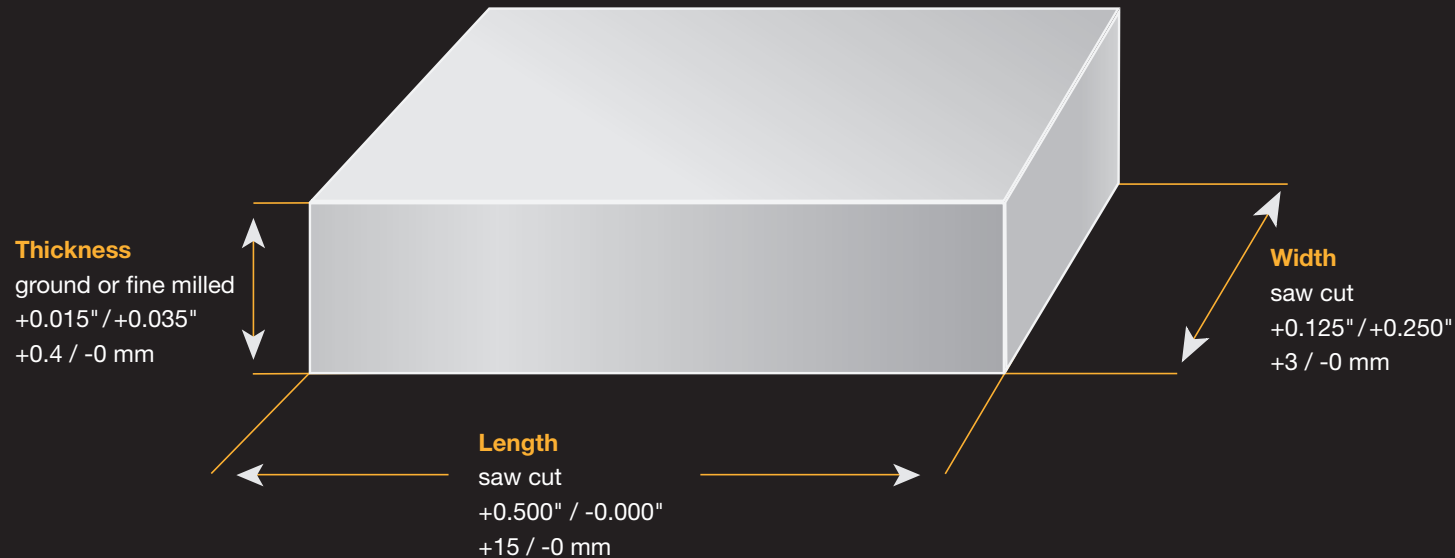


ABRAMS PREMIUM BLANKS AND BLOCKS!

NEW TO THE NORTH AMERICAN MARKET !

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

Always close to your final dimensions.



ABRAMS PREMIUM STEEL - \$AVES TIME AND MONEY!

ABRAMS!
PREMIUM STEEL

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



ABRAMS VERSATILITY !

... 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 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 www.abrams-steelguide.com).

The following graphics have been taken from the iPhone version.

ABRAMS®
PREMIUM STEEL

410

420

420 mod.

303

420RM

304

430F

314

431

4140 / 4142

316L / 316

440B

4140 PH / 4142 PH

316Ti

440C

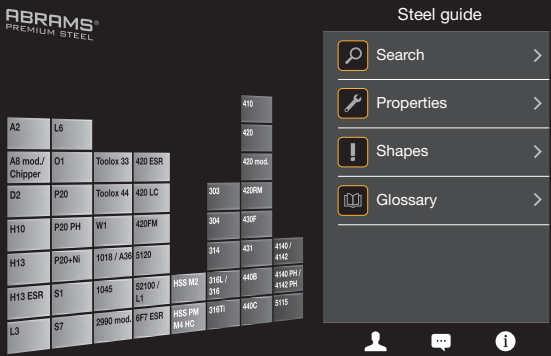
5115

STEP 1 A

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

TWO POSSIBLE WAYS TO START

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



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.

ABRAMS®
PREMIUM STEEL

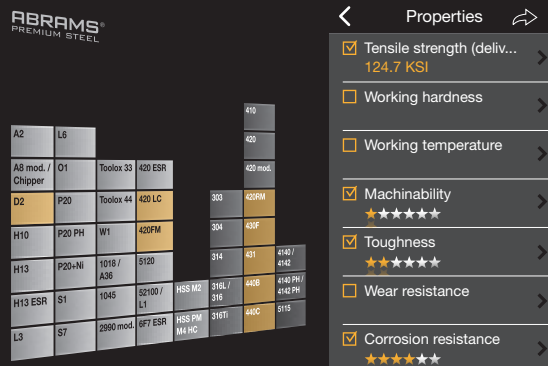
PREMIUM D2

X153CrMoV12

Max. hardness (deliv. condition) 255 HB

Max. working hardness 62 HRC

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



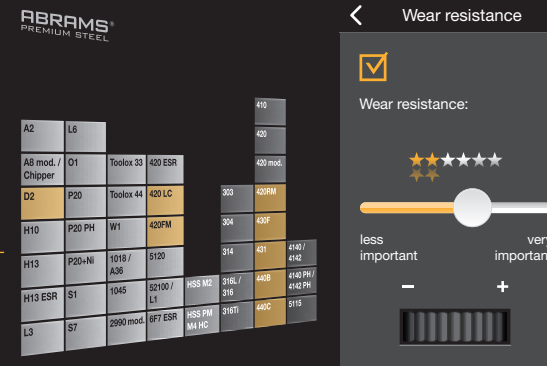
STEP 2 A

For example, click to open the property view.

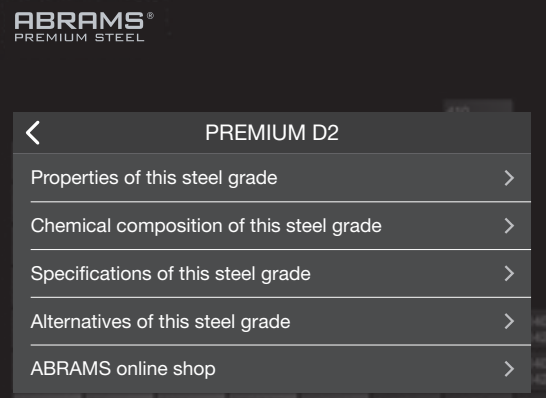
Choose the most important technical properties – in any desired combination.

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.



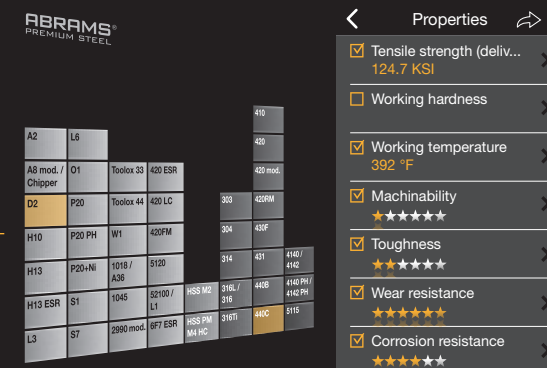
STEP 2 B

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 / SAE D2".



As a result, a highlighted list of steel grades appears with similar or possibly better properties than AISI / SAE 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.

In our current project 2019 / 2022 „Perfection from tip to toe“ we combine ballet as an exemplary art of dance and sport's precision with the visual austerity, straightlines and the crispness of our precision steel to form a modern point of view – Perfection from tip to toe.

The calendar features gracefully executed perfect ballet movements performed by dancers from London, Milan and Munich and captured by the talented beauty photographer Benjamin Becker in 13 exceptional motifs.

To view the making of the ABRAMS Art Project 2019 / 2022, simply scan the QR code:





FLATS !

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

Any 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. +0.125"
- 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.

ROUNDS !

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

These steel rounds are oversized to finish to nominal diameter.

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

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.

TOOL STEEL I

STEEL GRADE - AISI

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 / prehardened) [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	Stainless Steel, acid resistant	Heat-Treatable Steel	Case Hardening Steel
PREMIUM A2	✓	✓			✓					✓	✓			✓	241		118.2	62	✓		✓						A2
PREMIUM A8 mod. / Chipper						✓	✓								250		123.2	60	✓								A8 mod. / Chipper
PREMIUM D2	✓	✓			✓			✓	✓	✓	✓			✓	255	57	124.7	62	✓		✓						D2
PREMIUM H10						✓	✓								229		111.6	52		✓	✓						H10
PREMIUM H13						✓	✓							✓	229		111.6	56		✓	✓						H13
PREMIUM H13 ESR						✓	✓								229		111.6	56		✓	✓						H13 ESR
PREMIUM L3						✓	✓								223		108.7	64	✓								L3
PREMIUM L6						✓	✓							✓	250		123.2	54		✓							L6
PREMIUM O1	✓	✓		✓	✓			✓		✓	✓			✓	229	57	111.6	62	✓		✓						O1
PREMIUM P20						✓	✓								225		108.8	50	✓		✓						P20
PREMIUM P20 PH					✓	✓	✓								325		159.5	50	✓		✓						P20 PH
PREMIUM P20+Ni						✓	✓								325		159.5	50	✓		✓						P20+Ni
PREMIUM S1						✓	✓								229		111.6	60	✓	✓							S1
PREMIUM S7						✓	✓			✓				✓	225		110.2	60		✓	✓						S7

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)

TOOL STEEL II

STEEL GRADE - AISI

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	\$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 / prehardened) [BHN]	Delivery hardness (hardened) approx. [HRC]	Tensile strength (deliv. cond.) approx. [KSI]	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	✓		✓						Toolox 33
PREMIUM Toolox 44						✓	✓								418		205.9	45	✓		✓						Toolox 44
PREMIUM W1										✓					200		97.9	65	✓								W1
PREMIUM 1018 / A36				✓								✓			162		72.5	60	✓								1018 / A36
PREMIUM 1045					✓										190		94.2	54	✓								1045
PREMIUM 2990 mod.						✓	✓								250		123.2	63	✓		✓						2990 mod.
PREMIUM 420 ESR						✓	✓								241		118.2	55			✓		✓	✓			420 ESR
PREMIUM 420 LC						✓	✓								330		163.1	35			✓		✓				420 LC
PREMIUM 420FM						✓	✓	✓							330		163.1	48			✓		✓				420FM
PREMIUM 5120						✓	✓	✓							217		104.4	60	✓		✓					✓	5120
PREMIUM 52100 / L1						✓	✓								223		108.7	64	✓								52100 / L1
PREMIUM 6F7 ESR						✓	✓								260		127.6	54	✓	✓	✓						6F7 ESR

IMPERIAL

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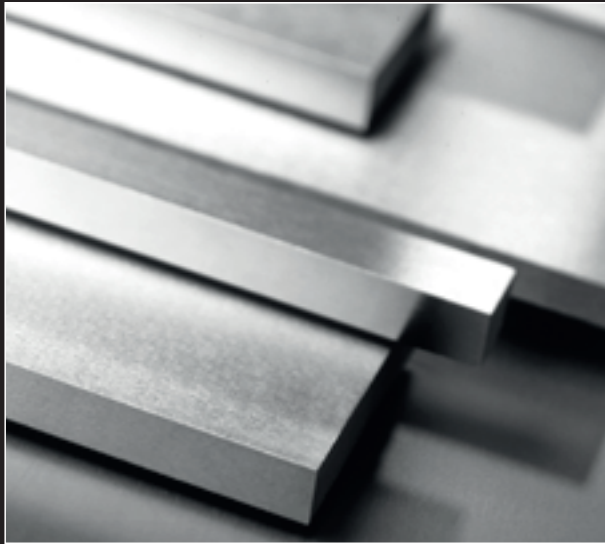
Precision Ground Flat Stock Metric, regular [GFSM reg] - acc. to DIN* 59350
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HIGH SPEED STEEL

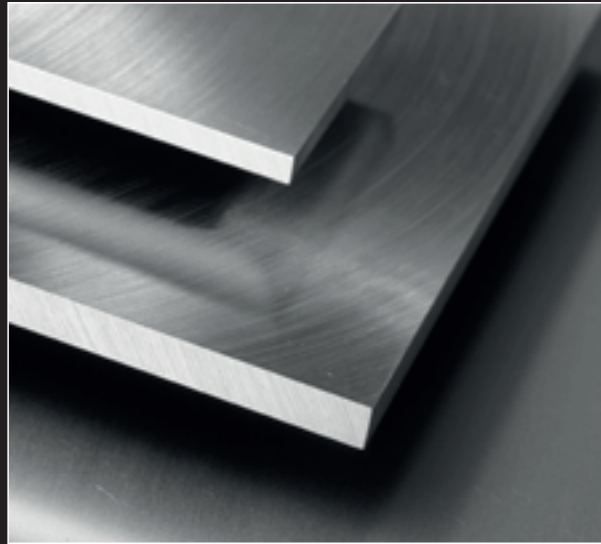
STEEL GRADE - AISI

	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 / prehardened) [BHN]	Delivery hardness (hardened)	Tensile strength (deliv. cond.) approx. [HRC]	Max. working hardness approx. [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	✓	✓	✓	✓					HSS M2
PREMIUM HSS PM M4 HC					✓	✓								270		133.4	65	✓	✓	✓	✓					HSS PM M4 HC



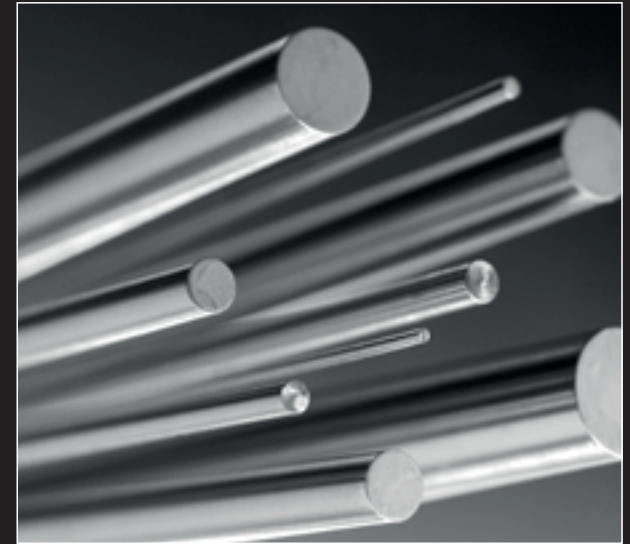
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METRIC

Precision Ground Flat Stock Metric, regular [GFSM reg] - acc. to DIN* 59350
 Precision Ground Flat Stock Metric, oversize [GFSM O/S]
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STAINLESS STEEL,

corrosion resistant
acid resistant

STEEL GRADE - AISI

PREMIUM 303					✓	✓					✓	✓		250		116.0	20					✓	✓			303
PREMIUM 304					✓	✓					✓	✓		215		100.0	<20					✓	✓			304
PREMIUM 314					✓	✓								223		109.5	<20					✓	✓			314
PREMIUM 316L / 316					✓	✓					✓	✓		215		100.0	<20					✓	✓			316L / 316
PREMIUM 316Ti					✓	✓						✓		215		100.0	<20					✓	✓			316Ti
PREMIUM 410					✓	✓					✓		✓	252		123.2	31		✓			✓	✓			410
PREMIUM 420				✓	✓	✓	✓					✓	✓	241	50	118.2	55			✓		✓	✓			420
PREMIUM 420 mod.					✓	✓						✓		252		123.2	47		✓			✓	✓			420 mod.
PREMIUM 420RM					✓	✓								325		159.5	48			✓		✓	✓			420RM
PREMIUM 430F					✓	✓								270		124.7	26					✓	✓			430F
PREMIUM 431					✓	✓					✓		✓	331		152.2	47	✓	✓			✓	✓			431
PREMIUM 440B				✓	✓	✓	✓					✓		265	53	134.1	58	✓		✓		✓	✓			440B
PREMIUM 440C					✓	✓					✓		✓	285		139.9	60	✓				✓	✓			440C

IMPERIAL

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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 PREMIUM STEEL – THE POWER OF VERSATILITY!

ABRAMS!
PREMIUM STEEL

HEAT-TREATABLE STEEL, CASE HARDENING STEEL

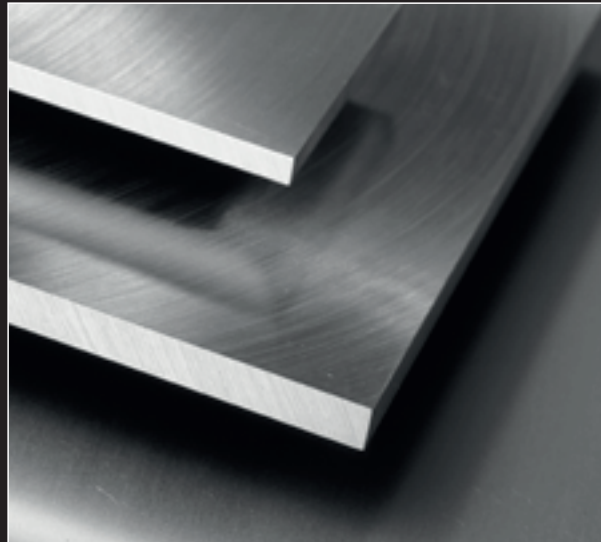
STEEL GRADE - AISI

PREMIUM 4140 / 4142					✓	✓								217		104.4	48	✓						✓		4140 / 4142
PREMIUM 4140 PH / 4142 PH	✓				✓	✓			✓				✓	380		188.5	48	✓						✓		4140 PH / 4142 PH
PREMIUM 5115					✓	✓	✓							217		104.4	60	✓		✓					✓	5115



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



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ABRAMS PREMIUM STEEL – THE POWER OF VERSATILITY!

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PREMIUM STEEL

TRANSPARENCY IN ALL DETAILS !

Information Regarding Our Product Catalog

ABRAMS Industries Inc. serves all of North America.

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

For current pricing, please check out our Online Shop or call our Sales Team at +1 (331) 234-9900 or email us at sales@abrams-industries.com. Please provide your reseller license if sales tax should not be collected.

Product Availability

Unless otherwise noted on your order confirmation, all items are shipped from stock in 1-2 days after receipt of order - subject to availability.

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)

No matter how small the weight or number of pieces - you only pay for the product and do not have to add additional weight or pieces to meet a minimum order quantity.

Packaging

All products are carefully packed, free of charge.

Shipping And Delivery Terms

All shipping is FOB origin, prepay and add.

All prepay and add charges are straight pass throughs with no premiums or additional charges. These are always disclosed transparently in all offers and order confirmations.

However, if you prefer, we are happy to use your own carrier and account.

Payment Conditions

ABRAMS offers three payment conditions:

- Save 2%, if payment is posted within 5 days from invoice date.
- Save 1%, if payment is posted within 10 days from invoice date.
- Net 30 days from invoice date.

Payment Options

ABRAMS offers three payment options:

- Pay by credit card with a surcharge of 4%.
- Pay by ACH or wire transfer.
- Pay by check.

Please note that all the information provided regarding the technical properties as well as the applications of our 44 PREMIUM steel grades are only suggestions and guidelines and do not constitute a guarantee.

Any errors or misprints do not constitute grounds for any claims to damages.

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PREMIUM STEEL



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
H13	P20+Ni	1018 / A36	5120						420RM
H13 ESR	S1	1045	52100 / L1	HSS M2	316L / 316	440B			304
		2990 mod.	6F7 ESR	HSS PM	316Ti	440C	5115		430F
									314
									431
									4140 / 4142
									4140 PH / 4142 PH

<

Properties

>

☒ Tensile strength (deliv...
124.7 KSI

>

☐ Working hardness

>

☐ Working temperature

>

☒ Machinability
★★★★★

>

☒ Toughness
★★★★★

>

☐ Wear resistance

>

- + 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.
-
- = SUM OF YOUR COMPETITIVE ADVANTAGES!

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