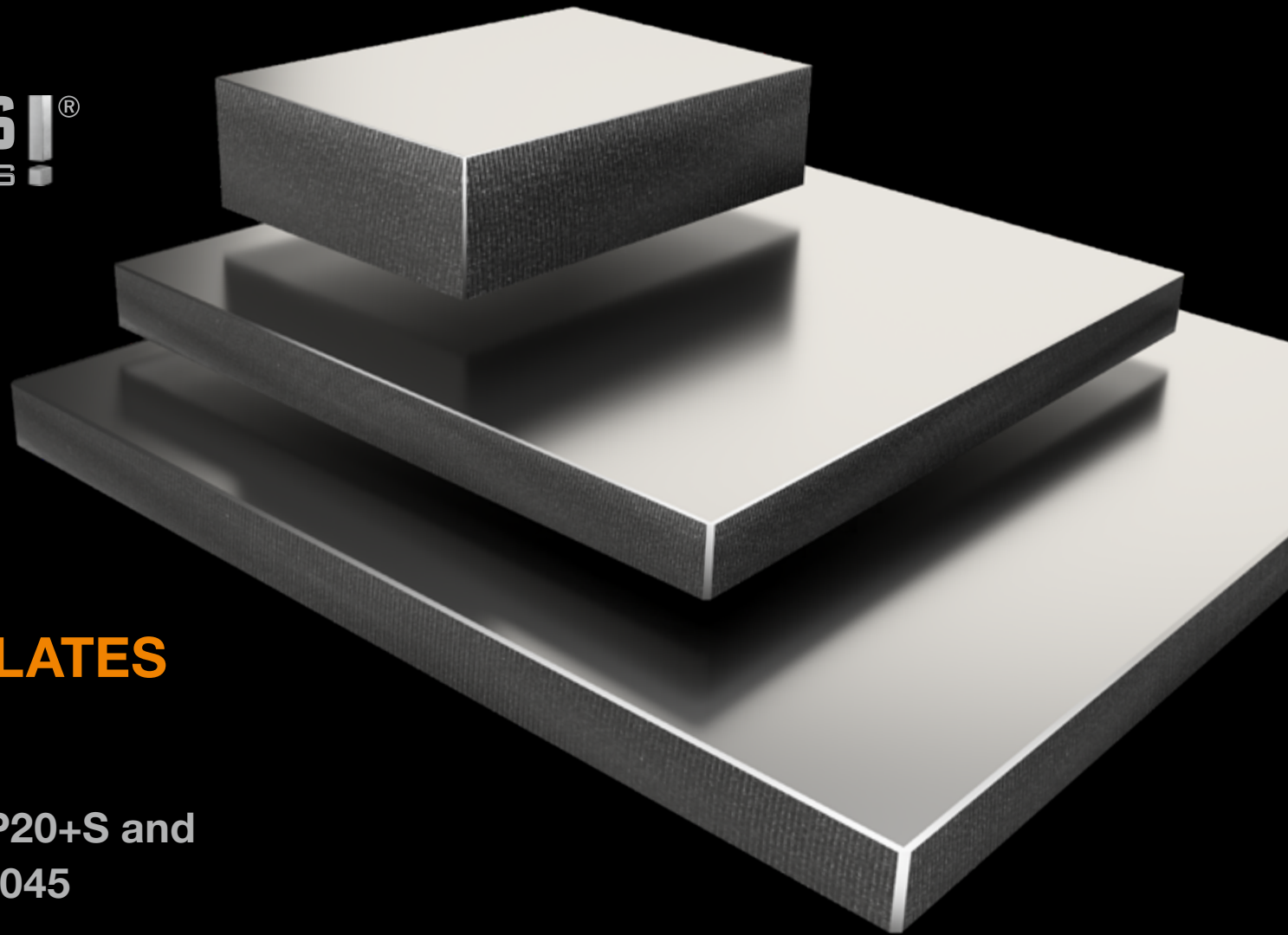


ABRAMS![®]
PREMIUM P-PLATES



PREMIUM P-PLATES

Steel Grades

1.2312 - AISI / SAE P20+S and

1.1730 - AISI / SAE 1045

1.266 DIMENSIONS

NORMALISED / TEMPERED

EX WORKS FROM OSNABRÜCK /GERMANY

NO MINIMUM ORDER VALUE

NO MINIMUM ORDER QUANTITY

DELIVERED IN 3 - 5 BUSINESS DAYS SUBJECT TO AVAILABILITY



SPECIFICATION !

Our delivery program contains 1.266 different specifications /standard dimensions.



Premium P-Plates [PPP]

Eg.: 296,0 x 346,0 x 17,0 mm

- **W** fine milled, Tol. +0,15 /-0 mm
- **L** fine milled, Tol. +0,15 /-0 mm
- **T** ground, Tol. +0,35 /+0,20 mm

UNDRILLED STANDARD P-PLATES NORMALISED / TEMPERED



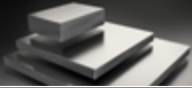
STEEL GRADE

[illegible]

STEEL GRADES

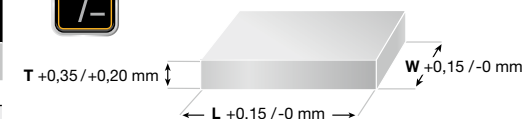
PREMIUM 1.2312 – AISI / SAE P20+S (40CrMnMoS8-6)

Premium P-Plates [PPP]

		THICKNESS [mm]								
		17,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0
WIDTH X LENGTH		Price per piece [in Euro]								
66,0	X 156,0	23,90								
74,0	X 346,0		41,90							
	X 196,0	28,90								
94,0	X 246,0	40,90								
	X 296,0	42,90								
95,0	X 95,0	21,90	25,90	30,90	32,90	34,90	37,90			
	X 96,0	22,90	26,90		33,90					
	X 126,0	24,90	27,90	32,90	35,90					
	X 156,0	27,90								
96,0	X 196,0	30,90								
	X 246,0	41,90								
	X 296,0	43,90								
	X 346,0	45,90								
100,0	X 130,0				37,90	38,90	47,90			
	X 346,0	48,90	54,90							
106,0	X 396,0	55,90	62,90							
	X 446,0		67,90							
	X 496,0		72,90							
114,0	X 246,0	43,90								
	X 296,0	46,90								
	X 196,0	34,90	40,90							
	X 246,0	45,90	46,90							
	X 296,0	48,90	54,90							
	X 346,0	54,90	60,90							
122,0	X 396,0		67,90							
	X 446,0		71,90							
	X 496,0		81,90							
	X 546,0			98,90						
	X 596,0			107,90						
126,0	X 126,0	28,90	33,90	35,90	40,90	55,90				
	X 156,0	30,90	37,90	40,90	42,90	57,90	62,90	74,90		



Tolerances



Standard values

Delivery condition: maximum 325 HB
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0,35	0,3	1,4	0	0,05	1,8	0,15
0,45	0,5	1,6	0,03	0,1	2,0	0,25



Don't see your exact dimension(s)?

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Direct access to our online shop

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Technical properties

Pre-hardened cold work steel and plastic mould steel.
Good machinability, although less polishable and more difficult to etch, due to added sulphur. High through-hardenableity and uniform component strength. Working hardness: approx. 32 HRC (delivery condition) up to 50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembling parts, moulding frames, plastic moulds, plastic processing, die casting moulds, hydroforming tools, recipient sleeves, folding bars, tool holders.



AISI / SAE P20+S – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE® for alternatives:
www.premium-steel.eu/1.2312

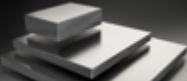
via smartphone / tablet:



PREMIUM 1.2312 – AISI / SAE P20+S (40CrMnMoS8-6)

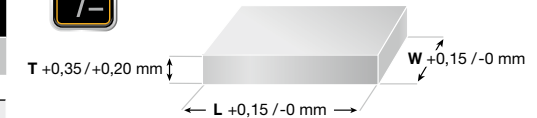
STEEL GRADES

Premium P-Plates [PPP]

		THICKNESS [mm]								
		17,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0
WIDTH X LENGTH		Price per piece [in Euro]								
136,0	X 156,0	31,90								
	X 246,0	47,90	48,90							
142,0	X 196,0	50,90	57,90							
	X 296,0									
156,0	X 156,0	37,90	40,90	42,90	48,90	61,90	69,90	79,90	91,90	127,90
	X 186,0	40,90								
	X 196,0	42,90	46,90	48,90	59,90	69,90	78,90	92,90	113,90	133,90
	X 206,0		48,90	50,90						
	X 246,0	49,90	55,90	60,90	68,90	82,90	99,90	108,90	127,90	174,90
	X 296,0	55,90	61,90	68,90	78,90	96,90	120,90	133,90	144,90	
	X 346,0		70,90	74,90	87,90	119,90	136,90		184,90	224,90
	X 396,0	72,90	81,90							
	X 446,0									
	X 496,0		97,90							
	X 546,0									
	X 596,0			121,90						
172,0	X 196,0	45,90								
	X 216,0	47,90								
	X 246,0	54,90	60,90							
	X 296,0	61,90								
	X 346,0		74,90							
	X 396,0		85,90							
	X 446,0		97,90							
	X 496,0		101,90							
	X 546,0			123,90						
	X 596,0			133,90						
	X 646,0			158,90						
	X 696,0			164,90						
190,0	X 246,0				84,90	105,90	119,90	129,90	144,90	178,90
194,0	X 346,0		79,90							
	X 396,0		89,90							



Tolerances



Standart values

Delivery condition: maximum 325 HB
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0,35	0,3	1,4	0	0,05	1,8	0,15
0,45	0,5	1,6	0,03	0,1	2,0	0,25



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Applications

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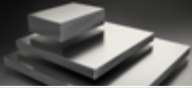
via smartphone/tablet:



STEEL GRADES

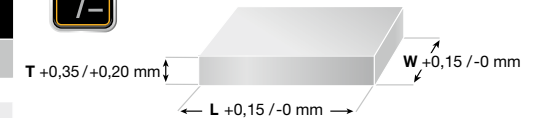
PREMIUM 1.2312 – AISI / SAE P20+S (40CrMnMoS8-6)

Premium P-Plates [PPP]

		THICKNESS [mm]								
		17,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0
WIDTH X LENGTH		Price per piece [in Euro]								
1.2312 P20+S	X 196,0	48,90	57,90	60,90	68,90	82,90	93,90	105,90	118,90	142,90
	X 206,0		62,90	67,90						
	X 222,0	54,90								
	X 246,0	57,90	68,90	70,90		107,90	121,90	131,90	146,90	189,90
	X 296,0	65,90	74,90	79,90	92,90	114,90	131,90	152,90	165,90	196,90
	X 346,0	76,90	82,90	91,90	106,90	137,90	157,90	178,90	212,90	236,90
	X 396,0	84,90	93,90		119,90	151,90	175,90	214,90	239,90	
	X 446,0		101,90	112,90	133,90	201,90				
	X 496,0		112,90	123,90	145,90					
	X 546,0									
206,0	X 246,0		70,90							
	X 296,0	69,90	75,90							
	X 346,0		85,90							
	X 396,0		96,90							
	X 446,0		109,90							
	X 496,0		114,90							
	X 546,0			143,90						
	X 596,0			151,90						
216,0	X 222,0	57,90								
	X 246,0	62,90	72,90	75,90	87,90	111,90		140,90		
	X 296,0	70,90	76,90	87,90	100,90	121,90	145,90	162,90		
218,0	X 246,0					114,90	125,90	146,90	157,90	
	X 296,0					125,90			186,90	
	X 346,0	79,90	87,90	96,90						
	X 396,0	87,90	98,90	106,90						
	X 446,0	99,90	113,90	120,90						
	X 496,0	106,90	119,90	133,90						
	X 546,0		130,90	151,90						
	X 596,0		140,90	159,90						
	X 646,0			177,90	190,90					
	X 696,0			185,90	203,90					
	X 796,0				228,90					



Tolerances



Standard values

Delivery condition: maximum 325 HB
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0,35	0,3	1,4	0	0,05	1,8	0,15
0,45	0,5	1,6	0,03	0,1	2,0	0,25



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Good machinability, although less polishable and more difficult to etch, due to added sulphur. High through-hardenableity and uniform component strength. Working hardness: approx. 32 HRC (delivery condition) up to 50 HRC.



Applications

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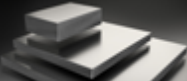
via smartphone / tablet:



PREMIUM 1.2312 – AISI / SAE P20+S (40CrMnMoS8-6)

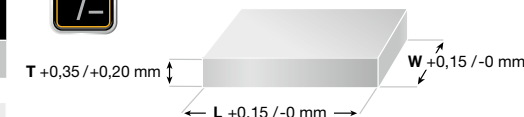
STEEL GRADES

Premium P-Plates [PPP]

		THICKNESS [mm]								
		17,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0
WIDTH X LENGTH		Price per piece [in Euro]								
226,0	X 346,0		89,90							
	X 396,0		100,90							
	X 246,0	67,90	76,90	83,90	93,90	134,90	152,90	162,90	180,90	196,90
246,0	X 256,0		79,90							
	X 266,0		82,90	87,90						
	X 296,0	78,90	89,90	93,90	109,90	152,90	171,90	199,90	221,90	240,90
	X 346,0	87,90	97,90	107,90	126,90	171,90	187,90	226,90	246,90	261,90
	X 396,0	98,90	104,90	113,90	142,90	184,90	210,90	247,90	262,90	290,90
	X 446,0		121,90	135,90	156,90	214,90	240,90	258,90		315,90
	X 496,0		134,90	145,90	171,90	225,90	256,90	278,90		340,90
	X 546,0		143,90	168,90	188,90			307,90		378,90
	X 596,0			177,90	225,90			329,90	366,90	449,90
256,0	X 296,0		96,90							
	X 346,0	92,90	104,90	112,90						
266,0	X 296,0			106,90						
268,0	X 346,0	96,90	106,90	113,90						
	X 396,0	106,90	114,90	121,90						
	X 446,0	114,90	134,90	136,90						
	X 496,0		145,90	158,90						
	X 546,0		155,90	173,90						
	X 596,0		164,90	200,90						
	X 646,0			207,90	231,90					
	X 696,0				295,90					
	X 796,0			244,90	305,90					
296,0	X 296,0	92,90	101,90	108,90	135,90	167,90	190,90	215,90	239,90	263,90
	X 306,0		105,90							
	X 346,0	104,90	109,90	121,90	150,90	189,90	238,90	246,90	274,90	299,90
	X 396,0	113,90	123,90	138,90	159,90	203,90	246,90	263,90	297,90	331,90
	X 446,0		143,90	146,90	185,90	229,90	259,90	292,90	327,90	359,90
	X 496,0		152,90	164,90	200,90					385,90
	X 546,0		164,90	180,90	218,90				376,90	439,90
	X 596,0			203,90	237,90	280,90				483,90
	X 646,0			218,90		305,90				
	X 696,0				297,90					
	X 796,0									



Tolerances



Standard values

Delivery condition: maximum 325 HB
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0,35	0,3	1,4	0	0,05	1,8	0,15
0,45	0,5	1,6	0,03	0,1	2,0	0,25



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Technical properties

Pre-hardened cold work steel and plastic mould steel.
Good machinability, although less polishable and more difficult to etch, due to added sulphur. High through-hardenability and uniform component strength. Working hardness: approx. 32 HRC (delivery condition) up to 50 HRC.



Applications

Mechanical engineering, jigs, base plates, assembling parts, moulding frames, plastic moulds, plastic processing, die casting moulds, hydroforming tools, recipient sleeves, folding bars, tool holders.



AISI / SAE P20+S – all at a glance!

Datasheets, online shop,
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www.premium-steel.eu/1.2312

via smartphone/tablet:



STEEL GRADES

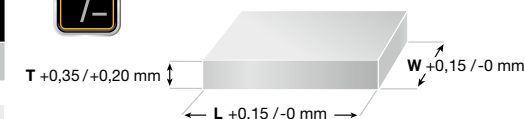
PREMIUM 1.2312 – AISI / SAE P20+S (40CrMnMoS8-6)

Premium P-Plates [PPP]

		THICKNESS [mm]								
		17,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0
WIDTH X LENGTH		Price per piece [in Euro]								
316,0	X 346,0			127,90						
	X 396,0				165,90					
318,0	X 346,0		119,90	130,90						
	X 396,0		135,90	148,90						
	X 446,0			159,90						
	X 496,0			172,90						
	X 546,0			188,90						
	X 596,0			210,90						
346,0	X 796,0				342,90					
	X 346,0		129,90	138,90	173,90	225,90	259,90	267,90	325,90	358,90
	X 396,0		138,90	155,90	181,90	247,90	267,90		361,90	394,90
	X 446,0		155,90	167,90	199,90	258,90	322,90	347,90	376,90	412,90
	X 496,0		172,90	186,90	224,90	274,90	350,90	401,90	432,90	478,90
	X 546,0		185,90	201,90	239,90	298,90				
	X 596,0		197,90	215,90						
	X 646,0			237,90	276,90					
366,0	X 696,0				305,90					
	X 396,0				195,90					
368,0	X 396,0		151,90	162,90						
	X 496,0			193,90						
	X 546,0			210,90						
	X 646,0				290,90					
396,0	X 396,0			174,90	211,90	258,90	297,90	329,90	373,90	409,90
	X 446,0		187,90	193,90	224,90	287,90	329,90		416,90	
	X 496,0		207,90	214,90	239,90	314,90				
	X 546,0			229,90	284,90		381,90		486,90	
	X 596,0				300,90		458,90	489,90	516,90	
	X 646,0				310,90	384,90	487,90			
	X 696,0			324,90	355,90					
	X 796,0				381,90					



Tolerances



Standard values

Delivery condition: maximum 325 HB
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0,35 - 0,45	0,3 - 0,5	1,4 - 1,6	0 - 0,03	0,05 - 0,1	1,8 - 2,0	0,15 - 0,25



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Applications

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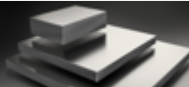
via smartphone / tablet:



PREMIUM 1.2312 – AISI / SAE P20+S (40CrMnMoS8-6)

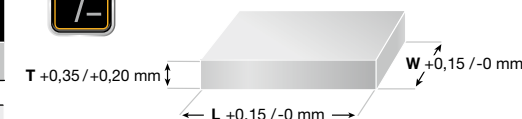
STEEL GRADES

Premium P-Plates [PPP]

		THICKNESS [mm]								
		17,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0
WIDTH X LENGTH		Price per piece [in Euro]								
424,0	X 696,0	403,90								
	X 446,0			218,90	258,90	315,90	400,90	436,90	462,90	
446,0	X 496,0			237,90	290,90	380,90		456,90	525,90	
	X 596,0				331,90	403,90		498,90	560,90	
	X 646,0						488,90		614,90	
	X 696,0								668,90	
496,0	X 496,0		263,90		310,90	396,90	445,90		583,90	
	X 546,0				324,90	442,90		503,90	622,90	
	X 596,0				342,90	464,90			682,90	
	X 646,0				378,90	496,90	547,90			
	X 696,0				438,90	530,90				
546,0	X 546,0				392,90	467,90	480,90		681,90	
	X 596,0				419,90		525,90			
	X 646,0				449,90		556,90			
	X 696,0					540,90				
596,0	X 596,0				447,90	490,90	567,90	635,90		
646,0	X 646,0					556,90		731,90		
	X 696,0							771,90		



Tolerances



Standard values

Delivery condition: maximum 325 HB
Chemical composition:

C	Si	Mn	P	S	Cr	Mo
0,35	0,3	1,4	0	0,05	1,8	0,15
0,45	0,5	1,6	0,03	0,1	2,0	0,25



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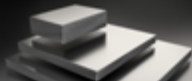
via smartphone/tablet:



STEEL GRADES

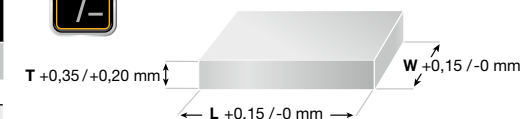
PREMIUM 1.1730 – AISI / SAE 1045 (C45U)

Premium P-Plates [PPP]

		THICKNESS [mm]														
		6,0	9,0	12,0	17,0	20,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0	96,0	116,0
WIDTH X LENGTH		Price per piece [in Euro]														
46,0	X 130,0	16,90														
	X 80,0		12,90	14,90												
50,0	X 96,0		14,90	15,90												
	X 126,0		15,90	16,90												
56,0	X 196,0	20,90														
66,0	X 156,0		16,90	17,90	18,90											
74,0	X 364,0				30,90		34,90									
	X 396,0				35,90		37,90									
	X 446,0				38,90		42,90									
	X 496,0				42,90											
80,0	X 126,0		16,90	18,90												
86,0	X 496,0												129,90			
90,0	X 196,0		20,90		23,90											
94,0	X 196,0			23,90	24,90											
	X 246,0			25,90	28,90											
	X 296,0			27,90	34,90											
95,0	X 95,0			16,90		18,90	22,90									
96,0	X 126,0			20,90	22,90		23,90	25,90								
	X 156,0		18,90	22,90	23,90		24,90									
	X 196,0		22,90	24,90	25,90											
	X 246,0		25,90	27,90	29,90											
	X 296,0			29,90	35,90											
	X 346,0			35,90	37,90											
100,0	X 130,0	14,90	17,90		24,90		25,90	27,90	28,90	40,90						
106,0	X 346,0			36,90	38,90		42,90									
	X 396,0			42,90	44,90		47,90									
	X 446,0				47,90		54,90									
	X 496,0				54,90		56,90									
112,0	X 246,0				30,90											
114,0	X 246,0			28,90	31,90											
	X 296,0			33,90	37,90											



Tolerances



Richtwerte

Lieferzustand: ca. 190 HB

Chemische Analyse:

C	Si	Mn	P	S
0,42	0,15	0,6	0	0
0,5	0,4	0,8	0,03	0,03



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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 HB (annealed) up to 54 HRC (surface hardness).



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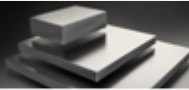
via smartphone / tablet:



PREMIUM 1.1730 – AISI / SAE 1045 (C45U)

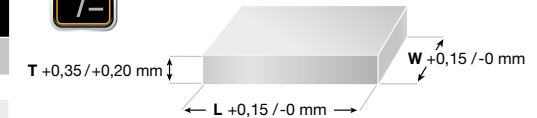
STEEL GRADES

Premium P-Plates [PPP]

		THICKNESS [mm]														
		6,0	9,0	12,0	17,0	20,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0	96,0	116,0
WIDTH X LENGTH		Price per piece [in Euro]														
122,0	X 196,0			27,90	28,90		29,90									
	X 246,0			29,90	33,90		35,90									
	X 296,0			35,90	38,90		40,90									
	X 346,0			40,90	43,90		47,90									
	X 396,0				47,90		49,90									
	X 446,0				50,90		55,90									
	X 496,0				56,90		61,90									
	X 546,0						67,90	69,90								
	X 596,0						70,90	75,90								
126,0	X 126,0			22,90	23,90		27,90	29,90	30,90							
	X 156,0			23,90	24,90		28,90	30,90	34,90		40,90	58,90				
	X 246,0						36,90	37,90								
130,0	X 296,0			36,90												
136,0	X 156,0		23,90		25,90											
142,0	X 246,0			33,90	36,90		40,90									
	X 296,0			37,90	40,90		43,90									
156,0	X 156,0		24,90	24,90	27,90		30,90	32,90	42,90	45,90	48,90	61,90	69,90		91,90	
	X 186,0		27,90		30,90											
	X 196,0		30,90	29,90	33,90		34,90	36,90	44,90	50,90	61,90		81,90			
	X 206,0						42,90	44,90	53,90							
	X 246,0		33,90	35,90	40,90		43,90	45,90	55,90	61,90	74,90		99,90		126,90	
	X 296,0			40,90	44,90		47,90	55,90		70,90	87,90		115,90			
	X 346,0			44,90	48,90		54,90	57,90					128,90			
	X 396,0				56,90		60,90	66,90								
	X 446,0				61,90		66,90	69,90								
	X 496,0				67,90		73,90									
	X 546,0						76,90	84,90								
	X 596,0						84,90	89,90								
158,0	X 296,0			42,90												
168,0	X 696,0						108,90									



Tolerances



Standard values

Delivery condition: maximum 190 HB
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



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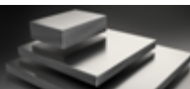
1.2312
P20+S

1.1730
1045

STEEL GRADES

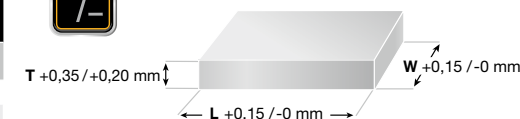
PREMIUM 1.1730 – AISI / SAE 1045 (C45U)

Premium P-Plates [PPP]

		THICKNESS [mm]														
		6,0	9,0	12,0	17,0	20,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0	96,0	116,0
WIDTH X LENGTH		Price per piece [in Euro]														
172,0	X 196,0			33,90	35,90											
	X 216,0			35,90	37,90											
	X 246,0			37,90	43,90		45,90									
	X 296,0			44,90	47,90		49,90									
	X 346,0				54,90		57,90									
	X 396,0				58,90		63,90									
	X 446,0				66,90		69,90									
	X 496,0				69,90		75,90									
	X 546,0						83,90	89,90								
	X 596,0						89,90	96,90								
	X 646,0						95,90	104,90								
	X 696,0						103,90	110,90								
190,0	X 246,0			40,90	44,90		47,90	50,90	57,90		88,90		109,90		142,90	
194,0	X 346,0				56,90		61,90									
	X 396,0				61,90		64,90	68,90								
196,0	X 196,0			35,90	42,90		44,90	45,90	54,90	61,90	76,90	88,90	100,90		127,90	
	X 206,0						46,90	47,90								
	X 222,0			40,90	43,90											
	X 246,0			42,90	45,90		48,90	54,90	60,90	77,90	90,90		117,90		149,90	
	X 296,0			49,90	53,90		57,90	61,90	70,90	88,90	104,90		140,90			
	X 346,0			50,90	57,90		63,90	69,90	80,90	100,90	120,90		163,90		206,90	
	X 396,0				66,90		68,90	74,90	89,90	104,90	136,90		180,90		229,90	320,90
	X 446,0						75,90	83,90								
200,0	X 496,0						84,90	89,90								
	X 396,0				66,90											



Tolerances



Standart values

Delivery condition: maximum 190 HB
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



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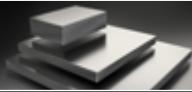
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PREMIUM 1.1730 – AISI / SAE 1045 (C45U)

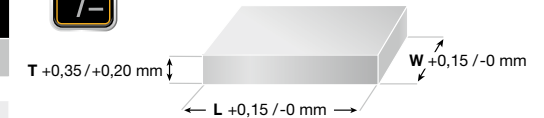
STEEL GRADES

Premium P-Plates [PPP]

		THICKNESS [mm]														
		6,0	9,0	12,0	17,0	20,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0	96,0	116,0
WIDTH X LENGTH		Price per piece [in Euro]														
206,0	X 246,0			44,90			49,90	56,90								
	X 296,0			50,90	55,90		60,90	64,90								
	X 346,0				60,90		64,90									
	X 396,0				67,90		70,90									
	X 446,0				73,90		77,90									
	X 496,0				79,90		87,90									
	X 546,0						91,90	101,90								
	X 596,0						101,90	108,90								
	X 646,0						108,90	115,90								
	X 696,0						114,90	124,90								
216,0	X 222,0			42,90	44,90											
	X 246,0				47,90		50,90	60,90								
	X 296,0				57,90		63,90	67,90								
	X 396,0						73,90	77,90								
218,0	X 246,0			45,90	49,90		53,90		86,90	101,90	117,90	128,90				
	X 296,0			57,90	60,90		64,90	69,90	84,90	114,90						
	X 346,0				61,90			73,90								
	X 396,0				68,90		74,90	83,90								
	X 446,0				74,90		80,90	88,90								
	X 496,0				83,90		91,90	95,90								
	X 546,0				88,90		95,90	103,90								
	X 596,0				96,90		104,90	110,90								
	X 646,0						110,90	119,90	135,90							
	X 696,0						115,90	127,90	145,90							
226,0	X 796,0				130,90		142,90	147,90								
	X 346,0				64,90		67,90									
	X 396,0				70,90		76,90									



Tolerances



Standard values

Delivery condition: maximum 190 HB
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



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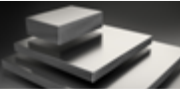


1.2312
P20+S

1.1730
1045

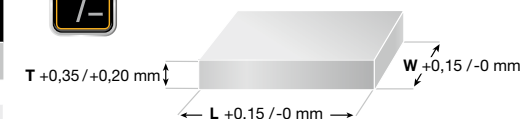
PREMIUM 1.1730 – AISI / SAE 1045 (C45U)

Premium P-Plates [PPP]

		THICKNESS [mm]														
		6,0	9,0	12,0	17,0	20,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0	96,0	116,0
WIDTH X LENGTH		Price per piece [in Euro]														
246,0	X 246,0			49,90	58,90		64,90	66,90	74,90	91,90	108,90	127,90	145,90		183,90	
	X 256,0				61,90		66,90									
	X 266,0						67,90	68,90								
	X 296,0			58,90	63,90		68,90	73,90	89,90	108,90	127,90	147,90	167,90		218,90	
	X 346,0				69,90		74,90	76,90	100,90	128,90	147,90		193,90		251,90	333,90
	X 396,0				76,90		81,90	90,90	109,90	139,90	163,90		221,90		274,90	373,90
	X 446,0				84,90		90,90	100,90	124,90	155,90	182,90		244,90		319,90	412,90
	X 496,0						97,90	115,90	140,90	170,90	212,90		266,90		350,90	
	X 546,0						106,90	119,90								
	X 596,0						114,90	122,90								
256,0	X 296,0				64,90		69,90									
	X 346,0				70,90		75,90	79,90								
266,0	X 296,0						70,90	74,90								
268,0	X 346,0				73,90		76,90	81,90								
	X 396,0				79,90		86,90	91,90								
	X 446,0				87,90		94,90	103,90								
	X 496,0				95,90		104,90	110,90								
	X 546,0				103,90		110,90	120,90								
	X 596,0				110,90		120,90	129,90								
	X 646,0						128,90	139,90	159,90							
	X 696,0						136,90	148,90								
	X 796,0						155,90	167,90								
296,0	X 296,0			64,90	67,90		74,90	84,90	101,90	124,90	150,90		200,90	227,90	254,90	306,90
	X 306,0				69,90		75,90									
	X 346,0				80,90		86,90	90,90	117,90	146,90	173,90		229,90		293,90	351,90
	X 396,0				89,90		96,90	100,90	132,90	162,90	192,90		260,90		331,90	
	X 446,0						103,90	112,90	147,90	181,90	216,90		291,90		374,90	450,90
	X 496,0						112,90	116,90	162,90	202,90	240,90		320,90		411,90	489,90
	X 546,0						122,90	126,90	167,90	220,90	264,90		347,90		415,90	528,90
	X 596,0						129,90	140,90	170,90	251,90	281,90		385,90		449,90	621,90
	X 646,0						141,90	155,90								
	X 696,0							180,90	214,90	274,90	333,90		442,90		514,90	



Tolerances



Standard values

Delivery condition: maximum 190 HB
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



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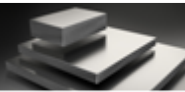
via smartphone / tablet:



PREMIUM 1.1730 – AISI / SAE 1045 (C45U)

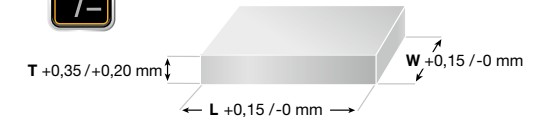
STEEL GRADES

Premium P-Plates [PPP]

		THICKNESS [mm]														
		6,0	9,0	12,0	17,0	20,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0	96,0	116,0
WIDTH X LENGTH		Price per piece [in Euro]														
316,0	X 346,0	94,90														
	X 396,0							104,90								
	X 446,0	117,90														
318,0	X 346,0				83,90		88,90	99,90								
	X 396,0				94,90		100,90	109,90								
	X 446,0						107,90	121,90								
	X 496,0						115,90	124,90								
	X 546,0						127,90	130,90								
	X 596,0						136,90	146,90								
	X 646,0							162,90								
	X 696,0							187,90								
X 796,0							217,90									
346,0	X 346,0				90,90		97,90	107,90	130,90	167,90	198,90	231,90	264,90		344,90	448,90
	X 366,0							112,90								
	X 396,0				97,90		107,90	115,90	149,90	187,90	220,90	260,90	300,90			466,90
	X 446,0				114,90		120,90	133,90	168,90	211,90	249,90		333,90		399,90	
	X 496,0				121,90		129,90	135,90	181,90	232,90	275,90		372,90		439,90	644,90
	X 546,0						136,90	146,90	185,90					388,90	507,90	
	X 596,0						148,90	159,90	187,90	280,90	331,90		443,90		517,90	700,90
	X 646,0						160,90	170,90	193,90							
	X 696,0							206,90	253,90	321,90	386,90		507,90		642,90	
	X 796,0								279,90							
366,0	X 396,0	120,90														
368,0	X 396,0						109,90	122,90								
	X 496,0						130,90	141,90								
	X 546,0						141,90	156,90								
	X 596,0							161,90	198,90							
	X 646,0							172,90								
	X 796,0							207,90	285,90							
388,0	X 596,0							170,90	209,90							
	X 796,0	220,90														



Tolerances



Standard values

Delivery condition: maximum 190 HB

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



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



AISI / SAE 1045 – all at a glance!

Datasheets, online shop,
ABRAMS STEEL GUIDE® for alternatives:
www.premium-steel.eu/1.1730

via smartphone / tablet:



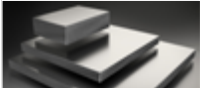
1.2312
P20+S

1.1730
1045

STEEL GRADES

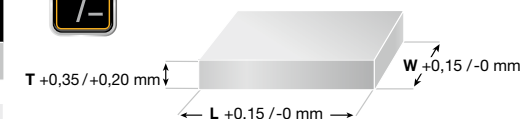
PREMIUM 1.1730 – AISI / SAE 1045 (C45U)

Premium P-Plates [PPP]

		THICKNESS [mm]														
		6,0	9,0	12,0	17,0	20,0	22,0	27,0	36,0	46,0	56,0	66,0	76,0	86,0	96,0	116,0
WIDTH X LENGTH		Price per piece [in Euro]														
396,0	X 396,0				114,90		120,90	133,90	167,90	214,90	253,90		339,90		411,90	532,90
	X 446,0				119,90		135,90	149,90	187,90	241,90	281,90		383,90		439,90	587,90
	X 496,0						149,90	162,90	209,90	265,90	317,90		426,90		514,90	746,90
	X 546,0						161,90	173,90	227,90	290,90	346,90	405,90	464,90		581,90	
	X 596,0						167,90	203,90	245,90	320,90	373,90		504,90		619,90	
	X 646,0						175,90		279,90							
418,0	X 696,0							220,90	291,90	366,90	433,90		583,90		700,90	
	X 796,0							181,90								
	X 896,0							238,90								
438,0	X 796,0								297,90							
446,0	X 446,0				128,90		160,90	173,90	222,90	266,90	316,90		419,90		507,90	647,90
	X 496,0							188,90	232,90	297,90	350,90		466,90		560,90	
	X 546,0						182,90	194,90	253,90	326,90	386,90		520,90		620,90	
	X 596,0							212,90	265,90	353,90	418,90		560,90			
	X 646,0								293,90	373,90						
	X 696,0								304,90	406,90	490,90		640,90		773,90	
496,0	X 796,0								313,90							
	X 496,0							202,90	240,90	327,90	386,90	452,90	514,90		653,90	
	X 546,0							293,90	320,90	360,90	426,90	499,90	573,90			
	X 596,0							309,90	327,90	389,90	466,90		620,90		720,90	
	X 646,0								333,90	426,90						
	X 696,0								353,90	453,90	532,90		720,90		899,90	
546,0	X 796,0								373,90							
	X 546,0									393,90	466,90		613,90			
	X 596,0									433,90	507,90		660,90		839,90	
	X 646,0									474,90						
568,0	X 696,0								399,90	499,90	587,90		757,90		959,90	
	X 796,0							373,90								
	X 596,0								426,90	507,90						
596,0	X 646,0								446,90	537,90						
	X 696,0							330,90		549,90						
	X 796,0									629,90						



Tolerances



Standard values

Delivery condition: maximum 190 HB
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 dimension available in different heights, widths and lengths.
On request - according to your needs!



Contact us

T: +49 541/357 39-0
E: sales@abrams-industries.eu



Direct access to our online shop

www.premium-steel.eu/1730-12-P



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 HB (annealed) up to 54 HRC (surface hardness).



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TRANSPARENCY IN ALL DETAIL !

Information regarding our Net-Price-List (as of November 2023):

All prices are in Euro per unit, Ex Works, including packaging, excluding current alloy surcharge (see www.premium-steel.eu/alloysurcharge).

By presenting the customer's value added tax identification number intra-community supplies (EU) will be charged without VAT. If a value added tax identification number does not apply (e.g. private person) all the prices will be charged with the German VAT added.

In case of price alterations, priority is assigned to the prices published in our online shop.

Minimum order value:

Any quantity - however small - there is no minimum order value for you!

Packaging Fees:

All products are carefully packed.
The packaging is free of charge!

Handling and Delivery Fees:

Consignments of up to 40kg are dispatched via parcel. Consignments above 40kg are dispatched via freight forwarders. At ABRAMS PREMIUM STEEL®, we base all of our shipping costs on the principle that they are as transparent and comprehensible for our clients as possible.

Thus, please visit www.premium-steel.eu/deliveryfees to find our current shipping costs.

For larger quantities please contact us.

For deliveries outside the EU, deliveries on Saturdays or express delivery services (guaranteed date and time) please contact us.

Delivery Time:

Standard products defined in our programme will be delivered as quickly as possible from stock. Individual custom requests will be manufactured and delivered on a short term basis.

The standard delivery time is 3-5 working days.

Condition of payment:

Within 14 days net from invoice (subject to a positive credit screening).

Condition of payment:

Within 14 days net from invoice (subject to a positive credit screening).

HELPFUL INFORMATION CONCERNING PRECISION STEEL

ABRAMS PREMIUM STEEL®	www.premium-steel.eu
ABRAMS PREMIUM STEEL® Shop	www.premium-steel.eu/shop
Steel grades	www.premium-steel.eu/steelgrades
Steel specifications	www.premium-steel.eu/specifications
Steel weight table (flat- and round)	www.premium-steel.eu/weights
Current alloy surcharges	www.premium-steel.eu/alloysurcharges
Current delivery informations	www.premium-steel.eu/deliveryfees

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ABRAMS PREMIUM ALUMINIUM®	premium-aluminium.eu
ABRAMS® PREMIUM TOOLS	www.premium-gewindebohrer.eu
ABRAMS® Artprojects	abramsartprojects.com

The price list gives an overview of the general attributes and possible applications of precision tool steel which will support your choice of product depending on the various applications of the products, a guarantee of specific attributes and values must be confirmed contractually.

Errors and printing mistakes may occur.

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ABRAMS!®

PREMIUM P-PLATES

								1.8550
								1.8519
1.2990 mod.	1.2714+QT L6+QT	1.2361	1.2312 P20+S			1.4841 314	1.4122	1.7227 4140
1.2842 O2	1.2709 ESU	1.2360 ~ Chipper	1.2311 P20	1.2083 ESU 420 ESR		1.4571 316Ti	1.4112 440B	1.7225 4140
1.2510 O1	1.2550 S1	1.2358	1.2294	1.2080 mod. D3 mod.		1.4418 S 165 M	1.4104 430F	1.7225+QT 4140+QT
1.2826	1.2436 D6	1.2344 H13	1.2210 L2	1.2067 L3 / L1		1.4404 316L	1.4057 431	1.7147 5120
1.2767 6F7	1.2379 D2	1.2344 ESU H13 ESR	1.2162	1.1730 1045	HSS 1.3343 M2	1.4401 316	1.4034	1.7131 5115
1.2767 ESU 6F7 ESR	1.2367	1.2343 H11	1.2099	1.0570 (St 52-3)	HSS PM 30 PM 30	1.4305 303	1.4031 420	1.6587 4820
1.2738 P20+Ni	1.2365 H10	1.2343 ESU H11 ESR	1.2085 420FM	Toolox 33	HSS PM 23 M3	1.4301 304	1.4021 420	1.6582 4337
1.2714 L6	1.2363 A2	1.2316	1.2083 420	Toolox 44	HSS PM 4 M4	1.4125 440C	1.4006 410	1.6580 4340

ABRAMS Premium Steel®

Variety with maximum precision.

- + 70 STEELGRADES in 33.855 DIMENSIONS as
- + PRECISION FLAT STEEL with / without machining allowance
- + €co-Präz® - Standardized precision blanks
- + Hart-Präz® - Hardened precision plates
- + P-PLATES
- + EROSION BLOCK annealed / hardened
- + PRECISION ROUND STEEL with / without machining allowance
- + ROUNDSTEEL
- + WITHOUT MINIMUM ORDER VALUE AND AMOUNT
- + SPECIAL CUSTOM DIMENSIONS SAWN - MILLED - GROUND

= SUM OF YOUR COMPETITIVE ADVANTAGES!

ABRAMS PREMIUM STEEL®

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Hannoversche Str. 38/46
49084 Osnabrück/Germany

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www.linkedin.com/company/abrams-industries-eu/

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