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Extended Material Examples for the Cutting Data Tables

	Material sub-group	Index	Composition / Structure / Heat treatment	Tensile strength lbf/in ² / HB / HRC
P	Unalloyed steel	P.1.1	< 0.15 % C Annealed	60900 lbf/in ² / 125 HB
		P.1.2	< 0.45 % C Annealed	92800 lbf/in ² / 190 HB
		P.1.3	< 0.45 % C Tempered	121800 lbf/in ² / 250 HB
		P.1.4	< 0.75 % C Annealed	132000 lbf/in ² / 270 HB
		P.1.5	< 0.75 % C Tempered	146500 lbf/in ² / 300 HB
	Low-alloy steel	P.2.1	Annealed	88500 lbf/in ² / 180 HB
		P.2.2	Tempered	134900 lbf/in ² / 275 HB
		P.2.3	Tempered	146500 lbf/in ² / 300 HB
		P.2.4	Tempered	174000 lbf/in ² / 375 HB
	High-alloy steel and high-alloy tool steel	P.3.1	Annealed	98600 lbf/in ² / 200 HB
		P.3.2	Hardened and tempered	159500 lbf/in ² / 300 HB
		P.3.3	Hardened and tempered	188500 lbf/in ² / 400 HB
	Stainless steel	P.4.1	Ferritic / martensitic Annealed	98600 lbf/in ² / 200 HB
P.4.2		Martensitic Tempered	117500 lbf/in ² / 250 HB	
M	Stainless steel	M.1.1	Austenitic / austenitic-ferritic Quenched	88500 lbf/in ² / 200 HB
		M.2.1	Austenitic Tempered	300 HB
		M.3.1	Austenitic / ferritic (Duplex)	113100 lbf/in ² / 230 HB
K	Grey cast iron	K.1.1	Pearlitic / ferritic	88500 lbf/in ² / 180 HB
		K.1.2	Pearlitic (martensitic)	127600 lbf/in ² / 260 HB
	Spherulitic graphite cast iron	K.2.1	Ferritic	78300 lbf/in ² / 160 HB
		K.2.2	Pearlitic	122600 lbf/in ² / 250 HB
	Malleable iron	K.3.1	Ferritic	63800 lbf/in ² / 130 HB
		K.3.2	Pearlitic	113100 lbf/in ² / 230 HB
N	Aluminium wrought alloy	N.1.1	Non-hardenable	60 HB
		N.1.2	Hardenable	49300 lbf/in ² / 100 HB
	Cast aluminium alloy	N.2.1	≤ 12 % Si, non-hardenable	36300 lbf/in ² / 75 HB
		N.2.2	≤ 12 % Si, hardenable	43500 lbf/in ² / 90 HB
		N.2.3	> 12 % Si, non-hardenable	63800 lbf/in ² / 130 HB
	Copper and copper alloys (bronze/brass)	N.3.1	Free-machining alloys, PB > 1 %	54400 lbf/in ² / 110 HB
		N.3.2	CuZn, CuSnZn	43500 lbf/in ² / 90 HB
		N.3.3	CuSn, lead-free copper and electrolytic copper	49300 lbf/in ² / 100 HB
Magnesium alloys	N.4.1	Magnesium and magnesium alloys	70 HB	
S	Heat-resistant alloys	S.1.1	Fe - basis Annealed	98600 lbf/in ² / 200 HB
		S.1.2		137800 lbf/in ² / 280 HB
		S.2.1	Ni or Co basis Annealed	121800 lbf/in ² / 250 HB
		S.2.2		171100 lbf/in ² / 350 HB
		S.2.3		Cast 156600 lbf/in ² / 320 HB
	Titanium alloys	S.3.1	Pure titanium	5800 lbf/in ²
		S.3.2	Alpha + beta alloys	152300 lbf/in ²
S.3.3		Beta alloys	203100 lbf/in ² / 410 HB	
H	Hardened steel	H.1.1	Hardened and tempered	46-55 HRC
		H.1.2	Hardened and tempered	56-60 HRC
		H.1.3	Hardened and tempered	61-65 HRC
		H.1.4	Hardened and tempered	66-70 HRC
	Chilled iron	H.2.1	Cast	400 HB
Hardened cast iron	H.3.1	Hardened and tempered	55 HRC	
O	Non-metal materials	O.1.1	Plastics, duroplastic	≤ 21800 lbf/in ²
		O.1.2	Plastics, thermoplastic	≤ 14500 lbf/in ²
		O.2.1	Aramid fibre-reinforced	≤ 145000 lbf/in ²
		O.2.2	Glass/carbon-fibre reinforced	≤ 145000 lbf/in ²
		O.3.1	Graphite	

* Tensile Strength at Rupture (Rm)

On the following 16 pages you will find an extension of the material examples to our usual indexes with additional international standards.

Overview of standards:

USA

Under **USA** several American standards are summarized

DIN

Deutsche Industrie Norm (German Standard)

AFNOR

Association Francaise de Normalisation (French Standard)

UNI

Unificazione Italiana (Italian Standard)

ČSN

Czechoslovakian Standard

BS

British Standards

SIS

Standardiseringen i Sverige (Swedish Standard)

UNE

Spanish Standard

JIS

Japanese Industrial Standard

ГОСТ

Soviet Standard

UNS

Unified Numbering System

Index	Material number	USA	DIN	AFNOR	UNI	ČSN	BS	SIS	UNE	JIS	ГОСТ	UNS	
P	P.1.1	1.5423	4520	16 Mo 5		16 Mo 5		1503-245-420				G 45200	
		1.0037		St 37-2	E 24-2		11 343				STKM 12 C		
		1.0044	A 570 Gr. 40	St 44-2	E 28-2	Fe 430 B FN	11 443	4360-43 B	1412		SM 41 B		
		1.0116	A 573 Gr. 58	St 37-3	E 24-3; E 24-4	Fe 360 D FF	11 378	4360-40 C	1312; 1313			St 3 kp; ps; sp	
		1.0144	A 573 Gr. 70	St 44-3	E 28-3; E 28-4	Fe 430 D FF		4360-43 C	1412; 1414		SM 41 C	St 4 kp; ps; sp	
		1.0301	1010	C 10	AF 34 C 10; XC 10	C 10	12 010	045 M 10			S 10 C	10	G 10100
		1.0401	1015	C 15	AF3 7 C 12; XC 18	C 15; C 16	12 020	080 M 15	1350	F-111			G 10170
		1.0402	1020	C 22	AF 42 C 20	C 20; C 21	12 024	050 A 20	1450	F-112		20	G 10200
		1.0406	1025	C 25	AF 50 C 30	C 25	12 030	070 M 26					
		1.0570		St 52-3	E 36-3; E 36-4	Fe 510 B; C; D	11 523	4360-50 B	2132		SM 50 YA	17 GS	
		1.1121	1010	Ck 10	XC 10	C 10	12 010	045 M 10	1265	F-1510	S 10 C; S 9 CK	08; 10	G 10100
		1.1133	1022; 1518	20 Mn 5	20 M 5	G 22 Mn 3		120 M 19			SMnC 420		G 10220
		1.1141	1015	Ck 15	XC 15; XC 18	C 15; C 16	12 020	080 M 15	1370	F-1511	S 15 C; S 15 CK	15	G 10170
		1.1151	1023	Ck 22	XC 25; XC 18	C 20		050 A 20			S 20 C; S 20 CK	20	
	1.1158	1025	Ck 25	XC 25	C 25	12 030	070 M 26			S 25 C	25	G 10250	
	P.1.2	1.0050	A 570 Gr. 50	St 50-2	A 50-2	Fe 490	11 500	4360-50 B	2172		SS 50	BSt 5 ps; sp	
		1.0060		St 60-2	A 60-2	Fe 590; Fe 60-2	11 600	4360-SSE; SSC			SM 58	St 6 ps; sp	
		1.0406	1025	C 25	AF 50 C 30	C 25	12 030	070 M 26					
		1.0420		GS-38									
		1.0446		GS-45									
		1.0481		17 Mn 4			11 748						
		1.0501	1035	C 35	AF 55 C 35	C 35	12 040	060 A 35	1550	F-113		35	G 10350
		1.0503	1045	C 45	AF 65 C 45	C 45	12 050	080 M 46	1650	F-114		45	G 10430
		1.0511	1040	C 40	AF 60 C 40	C 40	12 041						
		1.0528		C 30			12 031						
		1.0540		C 50									
1.0552			GS-52										
1.0558			GS-60										
1.0619			GS-C 25										
1.0711		1212	9 S 20			CF 9 S 22		220 M 07	220 M 07		SUM 21	SUM 21	G 12120
1.0715		1213	9 SMn 28	S 250	CF 9 SMn 28	11 109	230 M 07	1912	F-211 / F-2111		SUM 22		G 12130
1.0718		12 L 13	9 SMnPb 28	S 250 Pb	CF 9 SMnPb 28			1914	F-212 / F-2112		SUM 22 L		G 12134
1.0721		1108	10 S 20	10 F 1	CF 10 S 20	10 110	210 M 15		F-2121				
1.0722		11 L 08	10 SPb 20	10 PbF 2	CF 10 SPb 20				F-2122				
1.0723			15 S 20				210 A 15	1922			SUM 32		
1.0736		1215	9 SMn 36	S 300	CF 9 SMn 36		240 M 07		F-2113				G 12150
1.0737		12 L 14	9 SMnPb 36	S 300 Pb	CF 9 SMnPb 36			1926	F-2114				G 12144
1.1118			GS-24 Mn 6			42 2714							
1.1120			GS-20 Mn 5										
1.1131			GS-16 Mn 5										
1.1138			GS-21 Mn 5										
1.1142			GS-Ck 16										
1.1151		1023	Ck 22	XC 25; XC 18	C 20		050 A 20			S 20 C; S 20 CK	20		
1.1155			GS-Ck 25										
1.1158		1025	Ck 25	XC 25	C 25	12 030	070 M 26			S 25 C	25	G 10250	
1.1178		Ck 30											
1.1181	1035	Ck 35	XC 38 H1; XC 32	C 35		080 M 36	1572		S 35 C	35	G 10340		
1.1186	1040	Ck 40	XC 42 H1	C 40		080 M 40			S 40 C	40			
1.1191	1045	Ck 45	XC 42	C 45		080 M 46	1672		S 45 C	45	G 10420		
1.1206	1050	Ck 50	XC 48 H1			080 M 50				50			
1.1730		C 45 W	Y3 42										

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P	P.1.3	1.0501	1035	C 35	AF 55 C 35	C 35	12 040	060 A 35	1550	F-113		35	G 10350
		1.0503	1045	C 45	AF 65 C 45	C 45	12 050	080 M 46	1650	F-114		45	G 10430
		1.0511	1040	C 40	AF 60 C 40	C 40	12 041						
		1.0528		C 30			12 031						
		1.0540		C 50									
		1.0726	1140	35 S 20	35 MF 4		11 140	212 M 36	1957	F-210.G			G 11400
		1.0727	1146	45 S 20	45 MF 4			212 M 44	1973				G 11460
		1.0728		60 S 20	60 MF 4								
		1.1178		Ck 30									
		1.1181	1035	Ck 35	XC 38 H1:XC 32	C 35		080 M 36	1572		S 35 C	35	G 10340
		1.1186	1040	Ck 40	XC 42 H1	C 40		080 M 40			S 40 C	40	
		1.1191	1045	Ck 45	XC 42	C 45		080 M 46	1672		S 45 C	45	G 10420
		1.1206	1050	Ck 50	XC 48 H1			080 M 50				50	
	P.1.4	1.0535	1055	C 55	AF 70 C55	C 55	12 060	070 M 55	1655			55	
		1.0601	1060	C 60	CC 55	C 60		080 A 62				60	G 10600
		1.0757		46 SPb 20									
		1.1203	1055	Ck 55	XC 55	C50		070 M 55			S 55 C	55	
		1.1221	1060	Ck 60	XC 60	C60		080 A 62	1665; 1678		S 58 C	60; 60G	G 10640
		1.1248	1078; 1080	Ck 75	XC 75	C 75	12 081	060 A 78	1774; 1778			75	G 10780
		1.1274	1095	Ck 101	XC 100			060 A 96	1870		SUP 4		G 10950
		1.1520		C 70 W1									
		1.1525	W 108	C 80 W1	Y1 90; Y1 80	C 80 KU						U8A	T 72301
		1.1545+G502	W 110	C 105 W1	Y1 105	C 100 KU			1880			U10A	T 72301
		1.1620		C 70 W2									
		1.1625	W 1	C 80 W2		C 80 KU		BW 1 B			SKC 3; SK 5; SK 6	U8; 80	T 72301
		1.1645		C 105 W2	Y2 105	C 100 KU					SK 3	U10	T 72301
		1.1663	W 112	C 125 W	Y2 120	C 120 KU					SK 2	U13	T 72301
		1.1673		C 135 W	Y2 140	C 140 KU					SK 1		
		1.1740		C 60 W	Y3 55						SK 7		
		1.1750	W 1	C 75 W				BW 1A				75	
	1.1820		C 55 W										
	1.1830		C 85 W	Y3 90						SK 5			
	P.1.5	1.0535	1055	C 55	AF 70 C55	C 55	12 060	070 M 55	1655			55	
		1.0601	1060	C 60	CC 55	C 60		080 A 62				60	G 10600
		1.1203	1055	Ck 55	XC 55	C50		070 M 55			S 55 C	55	
1.1221		1060	Ck 60	XC 60	C60		080 A 62	1665; 1678		S 58 C	60; 60G	G 10640	
1.1231		1070	Ck 67	XC 68	C 70	12 071	060 A 67	1770			70	G 10700	
1.1274		1095	Ck 101	XC 100			060 A 96	1870		SUP 4		G 10950	
1.1520			C 70 W1										
P.2.1	1.2162		21 MnCr 5	20 NC 5		19 487				SCR 420 H			
	1.2210	L 2	115 CrV 3	100 C 3	107 CrV 3 KU	19 421						T 61202	
	1.2323		GS-48 CrMoV 6 7										
	1.2341		X 6 CrMo 4										
	1.2369		81 CrMov 42 16										
	1.2516		120 WV 4	110 WC 20	110 W 4 KU	19 711	BF 1						
	1.2542	S 1	45 WCrV 7		45 WCrV 8 KU	19 732	BS 1	2710				T 41901	
	1.2550		60 WCrV 7	55 WC 20	55 WCrV 8 KU	19 735							
	1.2711		54 NiCrMoV 6	55 NCDV 6		19 662							
	1.2735		15 NiCr 14	10 NC 12		16 240				SNC 22		T 51606	
	1.2762		75 CrMoNiW 6 7										
1.2842	O 2	90 MnCrV 8	90 MV 8	90 MnVCr 8 KU	19 314	BO 2					T 31502		

Index	Material number	USA	DIN	AFNOR	UNI	ČSN	BS	SIS	UNE	JIS	ГОСТ	UNS	
P	P.2.1		GS-8 Mn 7										
			37 MnSi 4			13 240							
		A 204 Gr. A	15 Mo 3	15 D 3	16 Mo 3		1501-240	2912					
			GS-22 Mo 4										
			GS-10 Ni 6										
		A 350-LF 5	14 Ni 6	16 N 6	14 Ni 6								
			GS-24 Ni 8										
			GS-10 Ni 14										
		3415	14 NiCr 10	14 NC 11	16 NiCr 11					F-1540	SNC 415 (H)		
		3310; 9314	14 NiCr 14	12 NC 15		16 240	655 M 13			F-1540	SNC 815 (H)		G 33106
			15 CrNi 6	16 NC 6	16 CrNi 4	16 220	S 107						
			18 CrNi 8	20 NC 6		13 231							
			GS-13 MnNi 6 4										
		8620	21 NiCrMo 2	20 NCD 2	20 NiCrMo 2		805 M 20	2506	F-1522	SNCM 220 (H)			G 86170
			17 CrNiMo 6	18 NCD 6	18 NiCrMo 7		820 A 16						
			GS-20 NiCrMo 3 7										
			38 Cr 2	38 C 2	38 Cr 2								
		5045	46 Cr 2	42 C 2	45 Cr 2								
			13 Cr 2										
		5015	15 Cr 3	12 C 3		14 120	523 M 15				SCr 415 (H)	15Ch	G 50150
			32 Cr 2										
		5130	28 Cr 4				530 A 30					30Ch	
		5132	34 Cr 4	32 C 4	34 Cr 4 (KB)		530 A 32				SCr 430 (H)	35Ch	G 51320
		5115	16 MnCr 5	16 MC 5	16 MnCr 5	14 220	527 M 17	2511	F-1516 / F-1517	SCR 415	18ChG	G 51170	
			16 MnCrS 5							F-150D			
		5120	20 MnCr 5	20 MC 5	20 MnCr 5	14 221					SMnC 420 (H)	18ChG	G 51200
			20 MnCrS 5							F-1551			
		4130	25 CrMo 4	25 CD 4 S	25 CrMo 4 (KB)	15 130	1717 CDS 110	2225		SCM 420; SCM 430	30ChM	G 41300	
			GS-26 CrMo 4										
		4135; 4137	34 CrMo 4	35 CD 4	35 CrMo 4	15 131	708 A 37	2234		SCM 432; SCCrM 3	AS38ChGM	G 41350	
			15 CrMo 5	12 CD 4	12 CrMo 4					SCM 415 (H)			
			20 CrMo 5	18 CD 4						SCM 421			
			23 CrMoB 3 3										
			20 CrMo 2							F-1523			
			20 MoCr 4	20 CD 4									
		A 182-F11; F12	13 CrMo 4 4	15 CD 3.5	14 CrMo 4 5		1501-620 Gr. 27	2216				12ChM; 15ChM	
		A 387 Gr. 12 Cl. 2	16 CrMo 4 4	15 CD 4.5	14 CrMo 4 5		1501-620 Gr. 27	2216				15ChM	
			GS-17 CrMo 5 5										
			GS-12 CrMo 19 5										
			GS-17 CrMo 9 10										
			GS-18 CrMo 9 10										
		A 182-F22	10 CrMo 9 10	10 CD 9.10	12 CrMo 9 10		1501-622 Gr. 31; 45 1503-660- 440	2218					J 21890
			14 MoV 6 3										
			GS-30 CrMoV 6 4										
			34 CrAl 6			14 340							
			34 CrAlS 5										K 23745
	15 CrMoV 5 9												
9255	55 Si 7	55 S 7	55 Si 8		250 A 53	2085; 2090				55S2			
P.2.2	L 3	100 Cr 6	Y 100 C 6				BL 3				T 61203		
		62 SiMnCr 4											
		58 SiCr 8			19 452								

Index	Material number	USA	DIN	AFNOR	UNI	ČSN	BS	SIS	UNE	JIS	ГОСТ	UNS	
	1.2108		90 CrSi 5P										
	1.2162		21 MnCr 5	20 NC 5		19 487				SCR 420 H			
	1.2210	L 2	115 CrV 3	100 C 3	107 CrV 3 KU	19 421						T 61202	
	1.2311		40 CrMnMo 7			19 520							
	1.2312		40 CrMnMoS 8 6	40 CMD 8 + S									
	1.2323		GS-48 CrMoV 6 7										
	1.2330	4135	35 CrMo 4	34 CD 4	35 CrMo 4		708 A 37	2234			35 HM	T 51620	
	1.2332	4142	47 CrMo 4	42 CD 4	40 CrMo 4		708 M 40	2244					
	1.2419		105 WCr 6	105 WC 13	107 WCr 5 KU					SKS 31	ChWG		
	1.2510	O 1	100 MnCrW 4	90 MWCV 5	95 MnWCr 5 KU	19 314	BO 1	2140	F-5220	SKS 3		T 31501	
	1.2542	S 1	45 WCrV 7		45 WCrV 8 KU	19 732	BS 1	2710				T 41901	
	1.2550		60 WCrV 7	55 WC 20	55 WCrV 8 KU	19 735							
	1.2711		54 NiCrMoV 6	55 NCDV 6		19 662							
	1.2713	L 6	55 NiCrMoV 6	55 NCDV 7		19 662			F-520.S	SKT 4	5ChNM	T 61206	
	1.2721		50 NiCr 13										
	1.2738		40 CrMnNiMo 8						F-5303				
	1.2826		60 MnSiCr 4										
	1.2833	W 210	100 V 1	Y1 105 V	102 V 2 KU	19 356	BW 2			SKS 43		T 72302	
	1.2842	O 2	90 MnCrV 8	90 MV 8	90 MnVCr 8 KU	19 314	BO 2					T 31502	
	1.3505	52100	100 Cr 6	100 C 6	100 Cr 6	14 100	534 A 99	2258	F-131 / F-1310	SUJ 2	SchCh 15	G 52986	
	1.3520		100 CrMn 6			14 209							
	1.3561		44 Cr 2										
	1.3563		43 CrMo 4										
	1.5120		38 MnSi 4										
	1.5121		46 MnSi 4										
P	P.2.2		1.5122	37 MnSi 5		13 240							
			1.5131	50 MnSi 4									
			1.5141	53 MnSi 4									
			1.5223	42 MnV 7		13 242							
		3135	1.5710	36 NiCr 6	35 NC 6	16 240	640 A 35			SNC 236			
		3435	1.5736	36 NiCr 10	30 NC 11	35 NiCr 9				SNC 631 (H)			
			1.5755	31 NiCr 14	18 NC 13		653 M 31			SNC 836			
		9840	1.6511	36 CrNiMo 4	40 NCD 3	38 NiCrMo 4 (KB)	16 341	816 M 40			40 ChN2MA	G 98400	
			1.6513	28 NiCrMo 4									
		8740	1.6546	40 NiCrMo 2 2	40 NCD 2	40 NiCrMo 2 (KB)		311-Type 7		SNCM 240	38ChGNM	G 87400	
		4340	1.6565	40 NiCrMo 6				311-Type 6		SNCM 439	40Ch2N2MA		
			1.6570	GS-30 NiCrMo 8 5									
			1.6580	30 CrNiMo 8	30 CND 8	30 NiCrMo 8		823 M 30	F-1272	SNCM 431			
		4340	1.6582	34 CrNiMo 6	35 NCD 6	35 NiCrMo 6 (KW)	16 342	817 M 40	2541	F-128 / F-1270	SNCM 447	38Ch2N2MA	
			1.6746	32 NiCrMo 14 5	35 NCD 14			830 M 31					
			1.6781	GS-18 NiCrMo 12 6									
			1.7003	38 Cr 2	38 C 2	38 Cr 2							
		5045	1.7006	46 Cr 2	42 C 2	45 Cr 2							
		5130	1.7030	28 Cr 4				530 A 30			30Ch		
		5132	1.7033	34 Cr 4	32 C 4	34 Cr 4 (KB)		530 A 32		SCr 430 (H)	35Ch	G 51320	
		5135	1.7034	37 Cr 4	38 C 4	38 Cr 4	14 140	530 A 36		SCr 435 H	40Ch		
		5140	1.7035	41 Cr 4	42 C 4	41 Cr 4		530 M 40		SCr 440 (H)	40Ch	G 51400	
		5140	1.7045	42 Cr 4	42 C 4 TS	41 Cr 4		530 A 40	2245	SCr 440	40Ch		
			1.7103	67 SiCr 5									
		5115	1.7131	16 MnCr 5	16 MC 5	16 MnCr 5	14 220	527 M 17	2511	F-1516 / F-1517	SCR 415	18ChG	G 51170
			1.7139	16 MnCrS 5					F-150D				

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P	P.2.2	1.7147	5120	20 MnCr 5	20 MC 5	20 MnCr 5	14 221				SMnC 420 (H)	18ChG	G 51200	
		1.7149		20 MnCrS 5						F-1551				
		1.7176	5155	55 Cr 3	55 C 3	55 Cr 3		527 A 60	2253	F-1431	SUP 9 (A)	50ChGA	G 51550	
		1.7218	4130	25 CrMo 4	25 CD 4 S	25 CrMo 4 (KB)	15 130	1717 CDS 110	2225		SCM 420; SCM 430	30ChM	G 41300	
		1.7220	4135; 4137	34 CrMo 4	35 CD 4	35 CrMo 4	15 131	708 A 37	2234		SCM 432; SCCrM 3	AS38ChGM	G 41350	
		1.7223	4142; 4140	41 CrMo 4	42 CD 4 TS	41 CrMo 4		708 M 40	2244		SCM 440	40 ChFA	G 41420	
		1.7225	4142; 4140	42 CrMo 4	42 CD 4	42 CrMo 4	15 142	708 M 40	2244		SCM 440 (H)		G 41400	
		1.7228	4150	50 CrMo 4	50 CR MO4			708 A 47			SCM 445 (H)	50ChFA	G 41470	
		1.7323		20 MoCrS 4	20 CD 4 S									
		1.7325		25 MoCr 4	25 CD 4									
		1.7326		25 MoCrS 4	25 CD 4 S									
		1.7361		32 CrMo 12	30 CD 12	32 CrMo 12	15 230	722 M 24	2240	F-124A				
		1.7707		30 CrMoV 9			15 330							
		1.7709		21 CrMoV 5 7										
		1.7725		GS-30 CrMoV 6 4										
		1.7735		14 CrMoV 6 9	15 CDV 6									
		1.8159	6150	50 CrV 4	50 CV 4	51 CrV 4	15 260	735 A 50	2230	F-143 / F-1430	SUP 10	50ChGFA	G 61500	
		1.8161		58 CrV 4			15 261							
		1.8507	A 355 Cl. D	34 CrAlMo 5	30 CAD 6.12	34 CrAlMo 7		905 M 31		F-1741			K 23545	
		1.8509	A 355 Cl. A	41 CrAlMo 7	40 CAD 6.12	41 CrAlMo 7	15 340	905 M 39	2940	F-1740	SACM 645	38ChMJuA	K 24065	
		1.8515		31 CrMo 12	30 CD 12	31 CrMo 12		722 M 24	2240	F-1712				
		1.8519		31 CrMoV 9						F-1721				
		1.8523		39 CrMoV 13 9		36 CrMoV 13 9		897 M 39						
		1.8550		34 CrAlNi 7									K 52440	
		1.0904	9255	55 Si 7	55 S 7	55 Si 8		250 A 53	2085; 2090				55S2	
		1.1157	1039	40 Mn 4	35 M 5			150 M 36					40G	G 10390
		1.1165	1330	30 Mn 5	35 M 5			120 M 36				SMn 433 H; SCMn 2	30GSL	
		1.1167	1335	36 Mn 5	40 M 5		42 2715	150 M 36	2120			SMn 438 (H); SCMn 3	35G2; 35GL	G 13350
		1.1170	1330	28 Mn 6	20 M 5	C 28 Mn		150 M 28				SCMn 1	30G	
		P.2.3	1.2744		57 NiCrMoV 7 7									
			1.7131	5115	16 MnCr 5	16 MC 5	16 MnCr 5	14 220	527 M 17		F-1516 / F-1517	SCR 415	18ChG	G 51170
			1.7755		GS-35 CrMoV 10 4									
		P.2.4	1.2714		56 NiCrMoV 7									
	1.3505		52100	100 Cr 6	100 C 6	100 Cr 6	14 100	534 A 99	2258	F-131 / F-1310	SUJ 2	SchCh 15	G 52986	
	1.7225		4142; 4140	42 CrMo 4	42 CD 4	42 CrMo 4	15 142	708 M 40	2244		SCM 440 (H)		G 41400	
	P.3.1	1.2080	D 3	X 210 Cr 12	Z 200 C 12	X 210 Cr 13 KU	19 436	BD 3				SKD 1	Ch12	T 30403
		1.2201		G-X 165 CrV 12										
		1.2343	H 11	X 38 CrMoV 5 1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	19 552	BH 11		F-5317	SKD 6	4Ch5MFS	T 28811	
		1.2363	A 2	X 100 CrMoV 5 1	Z 100 CDV 5	X 100 CrMoV 5 1 KU	19 571	BA 2	2260	F-5227	SKD 12		T 30102	
		1.2365	H 10	X 32 CrMoV 3 3	32 DCV 28	30 CrMoV 12 27 KU	19 541	BH 10			SKD 7	3Ch3M3F	T 20810	
		1.2367		X 38 CrMoV 5 3										
		1.2379	D 2	X 155 CrVMo 12 1	Z 160 CDV 12	X 155 CrVMo 12 1 KU	19 573	BD 2		F-5211	SKD 11		T 30402	
		1.2436		X 210 CrW 12	Z 200 CW 12	X 215 CrW 12 1 KU	19 437		2312	F-5213	SKD 2			
		1.2567		X 30 WCrV 5 3	Z 32 WCV 5	X 30 WCrV 5 3 KU	19 720				SKD 4			
		1.2581	H 21	X 30 WCrV 9 3	Z 30 WCV 9	X 30 WCrV 9 3 KU	19 721	BH 21			SKD 5	3Ch2W8F	T 20821	
		1.2601		X 165 CrMoV 12		X 165 CrMoW 12 KU	19 572		2310					
		1.2606		G-X 37 CrMoW 5 1										
1.2764			X 19 NiCrMo 4											
1.2767			X 45 NiCrMo 4	Y 35 NCD 16	42 NiCrMo 15 7	19 655								
1.2880			G-X 165 CrCoMo 12											
1.2885			X 32 CrMoCoV 3 3 3	30 DCKV 28										

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P	P.3.1	1.3302		S 12-1-4			19 810								
		1.3318		S 12-1-2			19 802								
		1.3333		S 3-3-2		HS 3-3-2	19 820								
		1.3343	M 2	S 6-5-2	Z 85 WDCV 06-05-04-0	HS 6-5-2	19 830	BM 2	2722	F-5603		SKH 9; SKH 51	R6AM5	T 11302	
		1.3346	H 41; M 1	S 2-9-1	Z 85 DCWV 08-04-02-0	HS 1-8-1		BM 1					H41	T 11301	
		1.4943		X 4 NiCrTi 25 15	Z 6 NCTDV 25.15 B				HR 251; HR 52; HR 51				SUH 660		
		1.5662		G-X 8 Ni 9											
		1.5680	2515	12 Ni 19	Z 18 N 5										
	P.3.2	1.2080	D 3	X 210 Cr 12	Z 200 C 12	X 210 Cr 13 KU	19 436	BD 3				SKD 1	Ch12	T 30403	
		1.2343	H 11	X 38 CrMoV 5 1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	19 552	BH 11			F-5317	SKD 6	4Ch5MFS	T 28811	
		1.2344	H 13	X 40 CrMoV 5 1	Z 40 CDV 5	X 40 CrMo 5 1 1 KU	19 554	BH 13	2242	F-5318		SKD 61	4Ch5MF1S	T 20813	
		1.2363	A 2	X 100 CrMoV 5 1	Z 100 CDV 5	X 100 CrMoV 5 1 KU	19 571	BA 2	2260	F-5227		SKD 12		T 30102	
		1.2365	H 10	X 32 CrMoV 3 3	32 DCV 28	30 CrMoV 12 27 KU	19 541	BH 10				SKD 7	3Ch3M3F	T 20810	
		1.2367		X 38 CrMoV 5 3											
		1.2379	D 2	X 155 CrVMo 12 1	Z 160 CDV 12	X 155 CrVMo 12 1 KU	19 573	BD 2		F-5211		SKD 11		T 30402	
		1.2567		X 30 WCrV 5 3	Z 32 WCV 5	X 30 WCrV 5 3 KU	19 720					SKD 4			
		1.2581	H 21	X 30 WCrV 9 3	Z 30 WCV 9	X 30 WCrV 9 3 KU	19 721	BH 21				SKD 5	3Ch2W8F	T 20821	
		1.2606		G-X 37 CrMoW 5 1											
		1.2709		X 2 NiCoMoTi 18 9 5											
		1.2764		X 19 NiCrMo 4											
		1.2767		X 45 NiCrMo 4	Y 35 NCD 16	42 NiCrMo 15 7	19 655								
		1.2885		X 32 CrMoCoV 3 3 3	30 DCKV 28										
		1.3207		S 10-4-3-10	Z 130 WKCDV 10-10-04	HS 10-4-3-10	19 861	BT 42		F-5553		SKH 57			
		1.3243		S 6-5-2-5	Z 85 WDCKV 06-05-05	HS 6-5-2-5	19 852		2723	F-5613		SKH 55	R6M5K5		
		1.3246	M 41	S 7-4-2-5	Z 110 WKCDV 07-05-04	HS 7-4-2-5	19 851								T 11341
		1.3247	M 42	S 2-10-1-8	Z 110 DKCWV 09-08-04	HS 2-9-1-8		BM 42				SKH 51			T 11342
		1.3249	M 33; M 34	S 2-9-2-8				BM 34							T 11333
		1.3255	T 4	S 18-1-2-5	Z 80 WKCV 18- 05-04-0	HS 18-1-1-5	19 855	BT 4				SKH 3			T 12004
		1.3265	T 5	S 18-1-2-10		HS 18-0-1-10	19 860	BT 5				SKH 4 A			T 12005
		1.3344	M 3 Cl. 2	S 6-5-3	Z 120 WDCV 06-05-04	HS 6-5-3		BM 4				SKH 52; SKH 53			T 11323
		1.3348	M 7	S 2-9-2	Z 100 DCWV 09-04-02	HS 2-9-2			2782						T 11307
		1.3401	A 128 (A)	G-X 120 Mn 12	Z 120 M 12	XG 120 Mn 12		Z 120 M 12					SCMnH 1	110G13L	
		1.5860		14 NiCr 18					16 523						
		1.5864		35 NiCr 18					16 640		F-122				
		P.3.3	1.6359		X 2 NiCrMo 18 8 5	Maraging 250									K 92890
		P.4.1	1.2083		X 42 Cr 13	Z 40 C 14	X 41 Cr 13 KU	19 435			F-5263	SUS 420 J 2			
	1.2316			X 36 CrMo 17	Z 38 CD 17	X 38 CrMo 16 1 KU									
	1.3543			X 102 CrMo 17	Z 100 CD 17										
	1.4001			G-X 7 Cr 13	Z 8 C 13 FF		17 020			F-8401					
	1.4002		405	X 6 CrAl 13	Z 6 CA 13	X 6 CrAl 13		405 S 17	2302	F-3111	SUS 405			S 40500	
	1.4005		416	X 12 CrS 13	Z 12 CF 13	X 12 CrS 13		416 S 21	2380		SUS 416			S 41600	
	1.4006		410; CA-15	X 10 Cr 13	Z 12 C 13	X 12 Cr 13	17 021	410 S 21	2302	F-3401	SUS 410	12Ch13		S 41000	
	1.4008			G-X 8 CrNi 13	Z 12 CN 13 M		42 2904								
	1.4016		430	X 6 Cr 17	Z 8 C 17	X 8 Cr 17	17 040	430 S 15	2320	F-3113	SUS 430	12Ch17		S 43000	
	1.4021		420	X 20 Cr 13	Z 20 C 13	X 20 Cr 13	17 022	420 S 37	2303	F-3402	SUS 420 J 1	20Ch13		S 42000	
	1.4024			X 15 Cr 13	Z 13 C 13		17 021	420 S 29			SUS 410 J 1				
1.4027			G-X 20 Cr 14	Z 20 C 13 M		42 2906	420 C 29			SCS 2	20Ch13L				
1.4028			X 30 Cr 13	Z 30 C 13	X 30 Cr 13	17 023	420 S 45	2304		SUS 420 J 2	30Ch13				
1.4031			X 38 Cr 13	Z 40 C 14	X 40 Cr 14	17 024		2304	F-3404	SUS 420 J 2	40Ch13				
1.4034			X 46 Cr 13	Z 40 C 14	X 40 Cr 14	17 029	420 S 45		F-3405		40Ch13				
1.4085			G-X 70 Cr 29												

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P	P.4.1	1.4104	430 F	X 12 CrMoS 17	Z 10 CF 17	X 10 CrS 17	17 140		2383	F-3403	SUS 430 F		S 43020	
		1.4105		X 4 CrMoS 18						F-3114				
		1.4106		X 2 CrMoSiS 18 2 1										
		1.4107		G-X 8 CrNi 12				42 2904						
		1.4109		X 65 CrMo 14										
		1.4112		X 90 CrMoV 18										S 44003
		1.4113	434	X 6 CrMo 17	Z 8 CD 17.01	X 8 CrMo 17			434 S 17	2325	F-3116	SUS 434		S 43400
		1.4116		X 45 CrMoV 15							F-3422			
		1.4122		G-X 35 CrMo 17				17 137						
		1.4125	440 C	X 105 CrMo 17	Z 100 CD 17	X 105 CrMo 17						SUS 440 C		S 44004
		1.4136		G-X 70 CrMo 29 2										
		1.4405		G-X 5 CrNiMo 16 5										
		1.4407		G-X 5 CrNiMo 13 4										
		1.4510	XM 8; 430 Ti	X 6 CrTi 17	Z 8 CT 17	X 6 CrTi 17						SUS 430 LX	08Ch17T	S 43036
		1.4511		X 8 CrNb 17	Z 8 CNb 17	X 6 CrNb 17					F-3122	SUS 430 LX		
		1.4512	409	X 5 CrTi 12	Z 6 CT 12	X 6 CrTi 12			409 S 19		F-3121	SUH 409		S 40900
		1.4528		X 105 CrCoMo 18 2										
		1.4540		G-X 4 CrNiCuNb 16 4										
		1.4724		X 10 CrAl 13	Z 10 C 13	X 10 CrAl 12	17 125	403 S 17			F-3152		10Ch13SJ	
		1.4742	430	X 10 CrAl 18	Z 10 CAS 18	X 8 Cr 17		430 S 15			F-3153	SUS 430; SUH21		
	1.4761		G-X 120 CrSi 23											
	1.4762	446	X 10 CrAl 24	Z 10 CAS 24	X 16 Cr 26	17 153				F-3154			S 44600	
	1.4931		G-X 22 CrMoV 12 1											
	1.4962		X 12 CrNiWTi 16 3											
	1.6982		G-X 3 CrNi 13 4											
	P.4.2	1.2316		X 36 CrMo 17	Z 38 CD 17	X 38 CrMo 16 1 KU								
		1.4000	403	X 6 Cr 13	Z 6 C 13	X 6 Cr 13	17 020	403 S 17	2301		SUS 403	08Ch13	S 40300	
		1.4021	420	X 20 Cr 13	Z 20 C 13	X 20 Cr 13	17 022	420 S 37	2303	F-3402	SUS 420 J 1	20Ch13	S 42000	
		1.4024		X 15 Cr 13	Z 13 C 13		17 021	420 S 29			SUS 410 J 1			
		1.4028		X 30 Cr 13	Z 30 C 13	X 30 Cr 13	17 023	420 S 45	2304		SUS 420 J 2	30Ch13		
		1.4031		X 38 Cr 13	Z 40 C 14	X 40 Cr 14	17 024		2304	F-3404	SUS 420 J 2	40Ch13		
		1.4034		X 46 Cr 13	Z 40 C 14	X 40 Cr 14	17 029	420 S 45		F-3405		40Ch13		
		1.4057	431	X 20 CrNi 17 2	Z 15 CN 16.02	X 16 CrNi 16	17 145	431 S 29	2321	F-3427	SUS 431	20Ch17N2	S 43100	
1.4059			G-X 22 CrNi 17											
1.4086			G-X 120 Cr 29											
1.4108			X 100 CrMo 13											
1.4112			X 90 CrMoV 18										S 44003	
1.4116			X 45 CrMoV 15							F-3422				
1.4120			G-X 20 CrMo 13											
1.4122			G-X 35 CrMo 17				17 137							
1.4138			G-X 120 CrMo 29 2											
1.4313		CA 6-NM	X 5 CrNi 13 4	Z 5 CN 13.4	X 6 CrNi 13 04			425 C 11	2385		SCS 5			
1.4340			G-X 40 CrNi 27 4											
1.4464			G-X 40 CrNiMo 27 5											
1.4542		630	X 7 CrNiCu 16 4 4	Z7 CNU 17 04 04 (17-4PH)							SCS 24; SUS 630		S 17400	
1.4545			X 5 CrNiCu 15-5	E-Z5 CNU 15 05 (15-5PH)										
1.4710			G-X 30 CrSi 6											
1.4718		HN 3	X 45 CrSi 9 3	Z 45 CS 9	X 45 CrSi 8	17 115	401 S 45			F-3220	SUH 1	40Ch9S2	S 65007	
1.4729		G-X 40 CrSi 13												
1.4740		G-X 40 CrSi 17												
1.4743		G-X 160 CrSi 18												

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P	P.4.2	1.4745		G-X 40 CrSi 23											
		1.4747	HNv 6	X 80 CrNiSi 20	Z 80 CSN 20.02	X 80 CrSiNi 20		443 S 65			SUH 4		S 65006		
		1.4776		G-X 40 CrSi 29											
		1.4823		G-X 40 CrNiSi 27 4											
		1.4923		X 22 CrMoV 12 1				17 134	762						
		1.4928		G-X 12 CrNiMoCoVN 12											
		1.4935		X 20 CrMoWV 12 1										S 42200	
M	M.1.1	1.3941		G-X 4 CrNi 18 13											
		1.3944		G-X 5 CrNi 18 11											
		1.3952		G-X 4 CrNiMoN 18 14											
		1.3953		G-X 2 CrNiMo 18 15											
		1.3955		G-X 12 CrNi 18 11											
		1.3959		G-X 10 CrNiNb 16 13											
		1.4301	304; 304 H	X 5 CrNi 18 10	Z6 CN 18-09	X 5 CrNi 18 10	17 240	304 S 15	2332; 2333	F-3504	SUS 304	08Ch18N10		S 30400	
		1.4303	308; 305	X 5 CrNi 18 12	Z 8 CN 18.12	X 8 CrNi 19 10		305 S 19			SUS 305	06Ch18N11		S 30500	
		1.4305	303	X 10 CrNiS 18 9	Z8 CNF 18-03	X 10 CrNi 18 09	17 243	303 S 21	2346		SUS 303			S 30300	
		1.4306	304 L	X 2 CrNi 19 11	Z3 CN 18-10	X 2 CrNi 18 11	17 249	304 S 12	2352; 2333	F-3503	SCS 19	03Ch18N11		S 30403	
		1.4308	CF-8	G-X 6 CrNi 18 9	Z 6 CN 18.10 M		42 2930	304 C 15	2333	F-8411	SCS 13	07Ch18N9L			
		1.4311	304 LN	X 2 CrNiN 18 10	Z 2 CN 18.10	X 2 CrNiN 18 11	17 249	304 S 62	2371		SUS 304 LN			S 30453	
		1.4312		G-X 10 CrNi 18 8			42 2931								
		1.4401	316	X 5 CrNiMo 18 10	Z6 CND 17 12 02	X 5 CrNiMo 17 12	17 346	316 S 16	2347	F-3543	SUS 316			S 31600	
		1.4404	316 L	X 2 CrNiMo 17 13 2	Z3 CND 17 12 02	X 2 CrNiMo 17 12	17 349	316 S 11	2348	F-3533	SUS 316 L			S 31603	
		1.4406	316 LN	X 2 CrNiMoN 17 12 2	Z 2 CND 17.12 Az	X 2 CrNiMoN 17 12		316 S 61			SUS 316 LN			S 31653	
		1.4408		G-X 6 CrNiMo 18 10			42 2940			F-8414					
		1.4413		G-X 4 CrNiMo 13-4											
		1.4429	316 LN	X 2 CrNiMoN 17 13 3	Z3 CND 17 11 03 Az	X 2 CrNiMoN 17 13		316 S 62	2375		SUS 316 LN			S 31653	
		1.4435	316 L	X 2 CrNiMo 18 14 3	Z 2 CND 17.13	X 2 CrNiMo 17 13		316 S 12	2353		SCS 16; SUS 316 L	03Ch17N 14M2		S 31603	
		1.4436	316	X 5 CrNiMo 17 13 3	Z 6 CND 17.12	X 5 CrNiMo 17 13		316 S 16	2343		SUS 316			S 31600	
		1.4437		G-X 6 CrNiMo 18 12			42 2940								
		1.4438	317 L	X 2 CrNiMo 18 16 4	Z 2 CND 19.15	X 2 CrNiMo 18 15		317 S 12	2367		SUS 317 L			S 31703	
		1.4439		G-X 3 CrNiMo 17 13 5						F-3544					
		1.4446		G-X 2 CrNiMo 17 13 4											
		1.4448		G-X 6 CrNiMo 17 13											
		1.4449		X 3 CrNiMo 18 12 3											
		1.4507	F61	X 2 CrNiMoCuN 25 6 3	Z3 CNDU 25 07 Az (Uranus 52 N)										S 32750
		1.4541	321	X 6 CrNiTi 18 10	Z 6 CNT 18.10	X 6 CrNiTi 18 11	17 248	321 S 12	2337		SUS 321	12Ch18N 10T		S 32100	
		1.4546	348	X 5 CrNiNb 18 10		X 6 CrNiNb 18 11		347 S 18						S 34800	
		1.4550	347	X 6 CrNiNb 18 10	Z10 CNNb 18-10	X 6 CrNiNb 18 11	17 245	347 S 17	2338	F-3552 / F-3524	SUS 347	08Ch18N 12B		S 34700	
		1.4552		G-X 5 CrNiNb 18 9			42 2933			F-8413					
		1.4571	316 Ti	X 6 CrNiMoTi 17 12 2	Z 6 CNT 17.12	X 6 CrNiMoTi 17 12	17 348	320 S 31	2350	F-3535		10Ch17N 13M2T		S 31635	
		1.4573	316 Ti	X 10 CrNiMoTi 18 12		X 6 CrNiMoTi 17 13		320 S 33				10Ch17N 13M3T		S 31635	
		1.4580	316 Cb	X 6 CrNiMoNb 17 12 2	Z 6 CNDNb 17.12	X 6 CrNiMoNb 17 12		318 S 17		F-3536		08Ch16N 13M2B		S 31640	
		1.4581		G-X 5 CrNiMoNb 18 10	Z 4 CNDNb 18.12 M	GX 6 CrMoNb 20 11	42 2941	318 C 17			SCS 22				
		1.4583	318	X 10 CrNiMoNb 18 12		X 6 CrNiMoNb 17 13									
		1.4821		X 15 CrNiSi 25-4	Z20 CNS 25 04										
		1.4825		G-X 25 CrNiSi 18 9			42 2932								
		1.4826		G-X 40 CrNiSi 22 9			42 2934								
		1.4828	309	X 15 CrNiSi 20 12	Z 15 CNS 20.12		17 251	309 S 24		F-3312	SUH 309	20Ch20N 14S2		S 30900	
		1.4832		G-X 25 CrNiSi 20 14											
1.4876	B 163	X 10 NiCrAlTi 32 20	Z10 NCAT 32-21 (Incoloy 800)		17 358	NA 15 (H)		F-3314	NCF 800						
1.4878	321	X 12 CrNiTi 18 9	Z 6 CNT 18.12 (B)	X 6 CrNiTi 18 11	17 246	321 S 20	2337		SUS 321	12Ch18N 10T					

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M	M.1.1	1.4968		G-X 7 CrNiNb 16 13											
		1.4988		G-X 8 CrNiMoVNb 16 1											
		1.6901		G-X 8 CrNi 18 10											
		1.6902		G-X 6 CrNi 18 10											
		1.6905		G-X 5 CrNiNb 18 10											
	M.2.1	1.3964			G-X 4 CrNiMnMoN 19 1										
		1.4310	301	X 12 CrNi 17 7	Z 12 CN 17.07	X 12 CrNi 17 07		301 S 21				SUS 301		S 30100	
		1.4465			G-X 2 CrNiMoN 25 25										
		1.4536			G-X 2 NiCrMoCuN 25 2										
		1.4539	904L	X 1 NiCrMoCu 25 20 5	Z2 NCDU 25 20 (Uranus B6)									N 08904	
		1.4547	F44	X 1 CrNiMoCuN 20 18 17	Z1 CNDU 20 18 06 Az (254 SMO)										
		1.4568	17-7 PH	X 7 CrNiAl 17 7											
		1.4837			G-X 40 CrNiSi 25 12			42 2936							
		1.4840			G-X 15 CrNi 25 20										
		1.4841	314; 310	X 15 CrNiSi 25 20	Z 15 CNS 25.20	X 16 CrNiSi 25 20	17 255			F-3310		SUH 310	20Ch25N 20S2	S 31000	
		1.4845	310 S	X 12 CrNi 25 21	Z 12 CN 25.20	X 6 CrNi 26 20	17 255	310 S24	2361			SUH 310;		S 31008	
		1.4848			G-X 40 CrNiSi 25 20			GX 40 CrNi 26 20	42 2952						
		1.4849			G-X 40 NiCrSiNb 38 1										
		1.4852			G-X 40 NiCrNb 35 25										
		1.4855			G-X 30 CrNiSiNb 24 2										
		1.4857			G-X 40 NiCrSi 35 25										
		1.4864	330	X 12 NiCrSi 36 16	Z 12 NCS 37.18				17 253	NA 17		F-3313	SUH 330		N 08330
		1.4865			G-X 40 NiCrSi 38 18			GX 50 NiCr 39 19		330 C 40			SCH 15; SCH 16		
		1.4871	EV 8	X 53 CrMnNiN 21 9	Z 52 CMN 21.09		X 53 CrMnNiN 21 9			349 S 54		F-3217	SUH 35; SUH 36	55Ch20G 9AN4	S 63008
		1.4873			X 45 CrNiW 18 9	Z 35 CNWS 20.09	X 45 CrNiW 18 9			331 S 40			SUH 31		
	M.3.1	1.4339			G-X 32 CrNi 28 10										
		1.4347			G-X 8 CrNi 26 7										
		1.4410	F53	X 2 CrNiMoN 25 7 4	Z2 CND 25 07 04 Az						F-3552				
		1.4460	329 LN	X 8 CrNiMo 27 5	Z5 CND 25 05 AZ					2324		SUS 329 J 1		S 32900	
		1.4462	329 A (F51)	X 2 CrNiMoN 22 5 3	Z2 CND 22 05 03 AZ (Uranus 45 N)			17 381			F-3308			S 31803	
		1.4463			G-X 6 CrNiMo 24 8 2										
		1.4501	F55	X 2 CrNiMoCuWN 25 7 4	Z2 CNDUW 25 07 04 Az (Zeron 100)									S 32760	
1.4815				G-X 8 CrNi 19 10											
1.4822				G-X 40 CrNi 24 5											
K	K.1.1	0.6010	A48-20 B	GG-10	Ft 10 D	G 10	42 2410		01 10-00		FC 10	Sc 10			
		0.6015	A48-25 B	GG-15	Ft 15 D	G 15	42 2415	Grade 150	01 15-00	FG-15	FC 15	Sc 15			
		0.6020	A48-30 B	GG-20	Ft 20 D	G 20	42 2420	Grade 220	01 20-00	FG-20	FC 20	Sc 20			
		0.6025	A48-40 B	GG-25	Ft 25 D	G 25	42 2425	Grade 260	01 25-00	FG-25	FC 25	Sc 25			
	K.1.2	0.6030	A48-45 B	GG-30	Ft 30 D	G 30	42 2430	Grade 300	01 30-00	FG-30	FC 30	Sc 30			
		0.6035	A48-50 B	GG-35	Ft 35 D	G 35	42 2435	Grade 350	01 35-00	FG-35	FC 35	Sc 35			
		0.6040	A48-60 B	GG-40	Ft 40 D			42 2440	Grade 400	01 40-00			Sc 40		
		0.6652		GGL-NiMn 13 7	L- NM 13 7				L-NiMn 13 7						
		0.6655	A 436 Type 1	GGL-NiCuCr 15 6 2	L-NUC 15 6 2				L-NiCuCr 15 6 2						
		0.6656	A 436 Type 1b	GGL-NiCuCr 15 6 3	L-NUC 15 6 3				L-NiCuCr 15 6 3						
		0.6660	A 436 Type 2	GGL-NiCr 20 2	L-NC 20 2				L-NiCr 20 2	05 23-00					
		0.6661	A 436 Type 2b	GGL-NiCr 20 3	L-NC 20 3				L-NiCr 20 3						
		0.6667		GGL-NiSiCr 20 5 3	L-NSC 20 5 3				L-NiSiCr 20 5 3						
		0.6676	A 436 Type 3	GGL-NiCr 30 3	L-NC 30 3				L-NiCr 30 3						
		0.6680	A 436 Type 4	GGL-NiSiCr 30 5 5	L-NSC 30 5 5				L-NiSiCr 30 5 5						
		K.2.1	0.7033			GGG-35.3				42 2303					
0.7040	60 40 18			GGG-40	FGS 400-12	GS 400-12	42 2304	SNG 420/12	0717-02	FGE 38-17	FCD 40	VC 42-12			

	Index	Material number	USA	DIN	AFNOR	UNI	ČSN	BS	SIS	UNE	JIS	ГОСТ	UNS	
K	K.2.1	0.7043		GGG-40.3	FGS 370-17	GSO 42/17	42 2314	SNG 370/17	0717-15			VC 42-12		
		0.7050	65-45-12	GGG-50	FGS 500-7	GS 500/7	42 2305	SNG 500/7	0727-02	FGE 50-7	FCD 50	VC 50-2		
		0.7060	80-55-06	GGG-60	FGS 600-3	GS 600/3	42 2306	SNG 600/3	0732-03		FCD 60	VC 60-2		
	K.2.2	0.7070	100-70-03	GGG-70	FGS 700-2	GS 700-2	42 2307	SNG 700/2	0737-01	FGS 70-2	FCD 70	VC 70-2		
		0.7080	120-90-02	GGG-80	FGS 800-2	GS 800-2	42 2308	SNG 800/2				VC 80-2		
		0.7652		GGG-NiMn 13 7	S-NM 13 7			S-NiMn 13 7						
		0.7660	A 439 Type D-2	GGG-NiCr 20 2	S-NC 20 2			S-NiCr 20 2						
		0.7661	A 439 Type D-2B	GGG-NiCr 20 3	S-NC 20 3			S-NiCr 20 3						
		0.7665		GGG-NiSiCr 20 5 2	S-NSC 20 5 2			S-NiSiCr 20 5 2						
		0.7670	A 439 Type D-2C	GGG-Ni 22	S-N 22			S-Ni 22						
		0.7673	A 439 Type D-2M	GGG-NiMn 23 4	S-NM 23 4			S-NiMn 23 4						
		0.7676	A 439 Type D-3	GGG-NiCr 30 3	S-NC 30 3			S-NiCr 30 3						
		0.7677	A 439 Type D-3A	GGG-NiCr 30 1	S-NC 30 1			S-NiCr 30 1						
		0.7680	A 439 Type D-4	GGG-NiSiCr 30 5 5	S-NSC 30 5 5			S-NiSiCr 30 5 5						
		0.7683	A 439 Type D-5	GGG-Ni 35	S-N 35			S-Ni 35						
		0.7685	A 439 Type D-5B	GGG-NiCr 35 3	S-NC 35 3			S-NiCr 35 3						
		0.8065		GTW-65										
		K.3.1	0.8035		GTW-35-04			42 2536			GTW 35			
	0.8040			GTW-40-05			42 2540							
	0.8045			GTW-45-07										
	0.8055			GTW-55										
0.8135			GTS-35-10	MN 35-10		42 2533	B 340/12		GTS 35					
0.8145			GTS-45-06			42 2545	P 440/7		GTS 45					
0.8155			GTS-55-04	MP 50-5		42 2555	P 510/4		GTS 55					
0.8165		GTS-65-02	MP 60-3			P 570/3		GTS 65						
K.3.2	0.8170		GTS-70-02	IP 70-2			P 690/2		GTS 70					
N	N.1.1	3.3307		Al99.85Mg0.5										
		3.3308		Al99.9Mg0.5										
		3.3315		AlMg1	5005 (AlMg1)					L-3350				
		3.3316		AlMg1.5										
		3.3317		Al99.85Mg1										
		3.3318		Al99.9Mg1										
		3.3326		AlMg1.8										
		3.3523		AlMg2.5										
		3.3525		AlMg2Mn0.3										
		3.3527		AlMg2Mn0.8										
		3.3535		AlMg3	5754									
		3.3537		AlMg2.7Mn										
		3.3555		AlMg5	5056 A									
		3.3561		G-AlMg5										
		3.3591		G-AlMg10										
		3.0205		Al99	1200 (A4)	9001/1	42 4009			L-3001				
		3.0255		Al99.5	1050 A	9001/2	42 4004			L-3051				
		3.0275		Al99.7	1070 A		42 4003			L-3071				
		3.0285		Al99.8	1080 A (A8)		42 4002			L-3081				
		3.0305		Al99.9										
		3.0505		AlMn0.5Mg0.5										
3.0506		AlMn0.6												
3.0515		AlMn1			42 4432			L-3810						
3.0517		AlMnCu												
3.0525		AlMn1Mg0.5	3005											

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N.1.1	3.0526		AlMn1Mg1									
	3.0615		AlMgSiPb									
	3.0915		AlFeSi									
N.1.2	3.2307		Al99.85MgSi									
	3.2315	6082	AlMgSi1	6082	9006/4	42 4400						
	3.3206	6063	AlMgSi0.5	6060 (AGS)		42 4401			L-3441			
	3.3208		Al99.9MgSi									
	3.3210		AlMgSi0.7	6005 A								
	3.3211		AlMg1SiCu	6061								
	3.3345		AlMg4.5									
	3.3545	5083	AlMg4Mn	5086 (AG4MC)	9005/5				L-3322			
	3.3547	A95083	AlMg4.5Mn0.7	5083 (AlMg5Mn0.7)			N8		L-3321	A 5083		
	3.3549		AlMg5Mn									
	3.4335	7020	AlZn4.5Mg1	7020 (AZ5G)	9007/1	42 4441			L-3741			
	3.4337		Al99.8ZnMg									
	3.4345		AlZnMgCu0.5									
	3.4365	7075	AlZnMgCu1.5	7075 (AZ5GU)		42 4222			L-3710			
	2.1086		G-CuSn10Zn									
	3.1255	2014	AlCuSiMn	2014	9002/3							
	3.1305		AlCu2.5Mg0.5									
	3.1325	2017 A	AlCuMg1	2017 A (AU4G)					L-3120			
	3.1355	2024	AlCuMg2	2024 (AU4G1)	9002/4	42 4203			L-3140			
	3.1645		AlCuMgPb	2030 (AU4PB)		42 4254			L-3121			
3.1655	2011	AlCuBiPb	2011 (AU5PbBi)	9002/5				L-3192				
MFK												
N.2.1	3.2581		G-AlSi12			42 4330						
	3.2583		G-AlSi12(Cu)			42 4330						
	3.3261		G-AlMg5Si			42 4515						
	3.3292		GD-AlMg9			42 4519						
	3.3541		G-AlMg3									
	3.3543		G-AlMg3(Cu)									
N.2.2	3.2134		G-AlSi5Cu1Mg									
	3.2151		G-AlSi6Cu4			42 4357						
	3.2161		G-AlSi8Cu3									
	3.2341		G-AlSi5Mg									
	3.2371		G-AlSi7Mg			42 4334						
	3.2373		G-AlSi9Mg			42 4331						
	3.2381		G-AlSi10Mg			42 4331						
	3.2383		G-AlSi10Mg(Cu)			42 4331						
	3.3241		G-AlMg3Si									
	3.1371		G-AlCu4TiMg									
3.1841		G-AlCu4Ti										
N.3.1	2.0040		OF-Cu			42 3000						
	2.0060		E-Cu57			42 3001						
	2.0065		E-Cu58			42 3001						
	2.0070		SE-Cu									
	2.0076		SW-Cu									
	2.0090		SF-Cu			42 3003						
	2.0220		CuZn5			42 3200						
	2.0230		CuZn10			42 3201						
2.0240		CuZn15			42 3202							

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N	N.3.1		CuZn20			42 3203								
			CuZn28											
			CuZn30				42 3210							
			CuZn33				42 3212							
			CuZn37			C2700	42 3213							
			CuZn36											
			CuZn40				42 3220							
			CuZn20Al2											
			CuZn28Sn1											
			CuZn37Al1				42 3231							
			CuZn38Sn1				42 3237							
			CuNi12Zn24											
			CuNi18Zn20											
			CuNi25											
			CuNi44Mn1											
			CuNi1.5Si											
			CuNi2Si					42 3054						
			CuNi3Si											
			CuNi10Fe1Mn											
			CuNi9Sn2											
			CuNi30Mn1Fe											
			CuNi30Fe2Mn2											
			CuAl5As											
			CuAl8											
			CuAl8Fe3											
			CuAl10Fe3Mn2											
			CuAl9Mn2											
			CuAl10Ni5Fe4											
			CuAl9Ni3Fe2											
			CuSn4											
			CuSn6											
			CuSn8											
			CuSn6Zn6											
			CuAg0.1P											
			CuAg0.1											
			CuBe1.7											
			CuBe2											
			CuCrZr					42 3039						
			CuFe2P											
			CuSi2Mn											
			CuSi3Mn											
			Ampco 16		CuAl10Fe3									
			Ampco 18		CuAl10.5Fe3.5									
			Ampco 8		CuAl6.5Fe2.5Sn									
					Ampco 8-16									
			N.3.2		CuZn36Pb1.5			42 3214						
		CuZn37Pb0.5												
		CuZn39Pb0.5				42 3221								
		CuZn35Ni2												
		CuZn40Al2												
		CuZn40Al1				42 3231								

	Index	Material number	USA	DIN	AFNOR	UNI	ČSN	BS	SIS	UNE	JIS	ГОСТ	UNS
N	N.3.2	2.0572		CuZn40Mn1			42 3234						
		2.0580		CuZn40Mn1Pb									
		2.0780		CuNi12Zn30Pb1									
		2.0790		CuNi18Zn19Pb1									
		2.1498		CuSP									
		2.1504		NiAlBz									
		2.1546		CuTeP									
		Ampco 12		CuAl9Fe3									
		Ampco 20		CuAl11Fe4									
	N.3.3	2.0371			CuZn38Pb1.5			42 3222					
		2.0375			CuZn36Pb3								
		2.0380			CuZn39Pb2			42 3223					
		2.0401			CuZn39Pb3								
		2.0402			CuZn40Pb2			42 3223					
		2.0410			CuZn44Pb2								
		2.0490			CuZn31Si1								
		2.0500			CuZn23Al6Mn4Fe3								
		2.0771			CuNi7Zn39Mn5Pb3								
		2.0978			CuAl11Ni6Fe5								
		2.1093			G-CuSn6ZnNi								
		2.1096			G-CuSn5ZnPb								
		2.1285			CuCo2Be								
		Ampco 21			CuAl13Fe4.5								
		Ampco 22			CuAl14Fe5								
		Ampco 25											
		Ampco 26											
	N.4.1				Ampco 18-26								
		3.5101			G-MgZn4SE1Zr1								
		3.5102			G-MgZn5Th2Zr1								
		3.5103			G-MgSE3Zn2Zr1								
		3.5105			G-MgTh3Zn2Zr1								
		3.5106			G-MgAg3Se2Zr1								
		3.5200			MgMn2								
3.5312				MgAl3Zn									
3.5470				GD-MgAl4Si1									
3.5612				GD-MgAl6Zn1									
3.5662				G-MgAl6									
3.5812				G-MgAl8Zn1			42 4911						
3.5912				GD-MgAl9Zn1			42 4911						
S	S.1.2	1.4980		X 5 NiCrTi 26 15									S66286
	S.2.1	1.3924		Ni54									
		1.3926		RNi12			42 3484						
		1.3927		RNi8			42 3484						
		2.4360		NiCu30Fe	Monel 400		42 3431						
		2.4610		NiMo16Cr16Ti	Hastelloy C-4								
		2.4617		NiMo28	Hastelloy B-2								
		2.4630		NiCr20Ti	Nimonic 75				HR 5				
		2.4668		NiCr19Fe18Nb5Mg	Inconel 718								
		2.4812		NiCr17Mo17FeW	Hastelloy C								
		2.4819		NiMo16Cr15W	Hastelloy C-276								
		2.4851		NiCr23Fe, Inconel 601	Inconel 601								

	Index	Material number	USA	DIN	AFNOR	UNI	ČSN	BS	SIS	UNE	JIS	ГОСТ	UNS	
S	S.2.1	2.4856		NiCr22Mo9Nb	Inconel 625									
		2.4858		NiCr21Mo				NA 16			NCF 825		N 08825	
		2.4951		NiCr20Ti	Nimonic 75			HR 5						
		2.4964		CoCr20W15Ni										
		2.4989		CoCr20NiW										
	S.2.2	2.4375		NiCu30Al	Monel K 500									
		2.4631		NiCr20TiAl	Nimonic 80 A			HR 401; 601				NCF 80 A		N 07080
		2.4634		NiCo20Cr15MoAlTi	Nimonic 105									
		2.4640		NiCr15Fe	Inconel 600									
		2.4654			Waspaloy									
		2.4662		NiCr13Mo6Ti3	Nimonic 901									
		2.4668		NiCr19Fe18Nb5Mg	Inconel 718									
		2.4816		NiCr15Fe	Inconel 600			NA 14				NCF 600		N 06600
		2.4952		NiCr20TiAl	Nimonic 80 A									
		2.4973		NiCr19Co11MoTi										
		2.4983		NiCr18Co18MoAlTi	Udimet 500									
	S.2.3	2.4670		G-NiCr13Al6MoNb	Nimocast 713									
		2.4674		NiCo15Cr10MoAlTi	Nimocast PK 24									
		2.4979		CoCr28MoNi										
	S.3.1	3.7024		Ti99,5										
		3.7025		Ti99,8										
		3.7034		Ti99,7										
		3.7055		Ti99,4										
		3.7064		Ti99,2										
		3.7124		TiCu2										
	S.3.2	3.7114		TiAl5Sn2										
		3.7144		TiAl6Sn2Zr4Mo2										
		3.7154		TiAl6Zr5										
3.7165			TiAl6V4	T-A 6 V				TA 10 – TA 13					R 56400	
3.7174			TiAl6V6Sn2											
3.7184		TiAl4Mo4Sn2					TA 45 – TA 51							
H	H.1.1	1.2311		40 CrMnMo 7			19 520							
		1.2312		40 CrMnMoS 8 6	40 CMD 8 + S									
		1.2316		X 36 CrMo 17	Z 38 CD 17	X 38 CrMo 16 1 KU								
		1.2365	H 10	X 32 CrMoV 3 3	32 DCV 28	30 CrMoV 12 27 KU	19 541	BH 10				SKD 7	3Ch3M3F	T 20810
		1.2567		X 30 WCrV 5 3	Z 32 WCV 5	X 30 WCrV 5 3 KU	19 720					SKD 4		
		1.2581	H 21	X 30 WCrV 9 3	Z 30 WCV 9	X 30 WCrV 9 3 KU	19 721	BH 21				SKD 5	3Ch2W8F	T 20821
		1.2738		40 CrMnNiMo 8							F-5303			
		1.2885		X 32 CrMoCoV 3 3 3	30 DCKV 28									
		1.4028		X 30 Cr 13	Z 30 C 13	X 30 Cr 13	17 023	420 S 45	2304			SUS 420 J 2	30Ch13	
		1.4031		X 38 Cr 13	Z 40 C 14	X 40 Cr 14	17 024		2304	F-3404		SUS 420 J 2	40Ch13	
		1.4034		X 46 Cr 13	Z 40 C 14	X 40 Cr 14	17 029	420 S 45		F-3405			40Ch13	
		1.4112		X 90 CrMoV 18										S 44003
		1.5122		37 MnSi 4				13 240						
		1.6358		X 2 NiCoMoTi 18 9 5										
		1.6582	4340	34 CrNiMo 6	35 NCD 6	35 NiCrMo 6 (KW)	16 342	817 M 40	2541	F-128 / F-1270		SNCM 447	38Ch2N2MA	
		1.7003		38 Cr 2	38 C 2	38 Cr 2								
		1.7006	5045	46 Cr 2	42 C 2	45 Cr 2								
		1.7030	5130	28 Cr 4				530 A 30					30Ch	
		1.7176	5155	55 Cr 3	55 C 3	55 Cr 3		527 A 60	2253	F-1431	SUP 9 (A)		50ChGA	G 51550
		1.0961	9262	60 SiCr 7	60 SC 7	60 SiCr 8						SUP 7		

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H.1.1	1.1248	1078; 1080	Ck 75	XC 75	C 75	12 081	060 A 78	1774; 1778			75	G 10780		
	1.1273		90 Mn 4											
H.1.2	1.2083		X 42 Cr 13	Z 40 C 14	X 41 Cr 13 KU	19 435			F-5263	SUS 420 J 2				
	1.2323		GS-48 CrMoV 6 7											
	1.2343	H 11	X 38 CrMoV 5 1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	19 552	BH 11		F-5317	SKD 6	4Ch5MFS	T 28811		
	1.2367		X 38 CrMoV 5 3											
	1.2510	O 1	100 MnCrW 4	90 MWCV 5	95 MnWCr 5 KU	19 314	BO 1	2140	F-5220	SKS 3		T 31501		
	1.2542	S 1	45 WCrV 7		45 WCrV 8 KU	19 732	BS 1	2710				T 41901		
	1.2550		60 WCrV 7	55 WC 20	55 WCrV 8 KU	19 735								
	1.2606		G-X 37 CrMoW 5 1											
	1.2711		54 NiCrMoV 6	55 NCDV 6			19 662							
	1.2713	L 6	55 NiCrMoV 6	55 NCDV 7			19 662		F-520.S	SKT 4	5ChNM	T 61206		
	1.2764		X 19 NiCrMo 4											
	1.2767		X 45 NiCrMo 4	Y 35 NCD 16	42 NiCrMo 15 7	19 655								
	1.4109		X 65 CrMo 14											
	1.4112		X 90 CrMoV 18									S 44003		
	1.1157	1039	40 Mn 4	35 M 5				150 M 36				40G	G 10390	
	1.1231	1070	Ck 67	XC 68	C 70	12 071	060 A 67	1770				70	G 10700	
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ISO designation system

ISO attribute	Feature Description
A	
ADJRG	Adjustment range
ADJRGR	Adjustment range radial
ALP	Clearance angle axial
AN	Clearance angle major
APMX	Depth of cut maximum
B	
B	Shank width
BD	Body diameter
BD_1	Body diameter, 1st cutting step
BD_2	Body diameter, 2nd cutting step
BD_3	Body diameter, 3rd cutting step
BD_4	Body diameter, 4th cutting step
BDRED	Body diameter, reduced
BDX	Body diameter maximum
BHTA	Body half taper angle
BLQ	Balance quality code
BN	Face land width
BS	Trailing edge length
BTED	Body taper end diameter
C	
CDX	Cutting depth maximum
CF	Central flat
CHW	Corner chamfer width
CHWTL	Flank chamfer width left hand
CLDIS_1	centre line distance 1
CLDIS_2	centre line distance 2
CLDIS_3	centre line distance 3
CND	Coolant entry diameter
CNT	Coolant entry, thread size
CODX	Parting off diameter, max.
CRE	Spot radius
CRKS	Pull stud thread size
CW	Cutting width
CXD	Coolant exit diameter
D	
D1	Fixing hole diameter
DAXN	Axial groove outside diameter minimum
DAXX	Axial groove outside diameter maximum
DC	Cutting diameter
DC_1	Cutting diameter, 1st cutting step
DC_2	Cutting diameter, 2nd cutting step
DCD	Cutting diameter drilling part
DCINTF	Interference cutting diameter
DCN	Cutting diameter minimum
DCONMS	Mounting spigot diameter
DCONWS	Connection diameter workpiece side
DCONWS_1	Connection diameter workpiece side – 1
DCONWS_2	Connection diameter workpiece side – 2
DCKX	Countersunk diameter, max
DCX	Cutting diameter maximum
DF	Flange diameter
DFC	Functional diameter
DHUB	Hub diameter
DLN	Diameter lock nut
DMIN	Minimum bore diameter
DN	Neck Diameter
DRVS	Drive size

ISO attribute	Feature Description
G	
GAN	Insert rake angle
GB	Face land angle
H	
H	Shank height
HDD	Head diameter
HDW	head width
HF	Functional height
HLN	Lock nut height
HSUP	Support height
I	
IC	Inscribed circle diameter
IDNR	Identifying order number
IH	Insert hand
INSL	Insert length
K	
KAPR	Tool cutting edge angle
KCH	Corner chamfer angle
L	
L	Cutting edge length
L_1	Cutting edge length 1
L_2	Cutting edge length 2
L_3	Cutting edge length 3
LB	Body length
LB_1	Body length 1
LB_2	Body length 2
LCF	Length chip flute
LCOL	Collet length
LDRED	Reduced body diameter length
LE	Cutting edge effective length
LF	Functional length
LF_1	Functional length 1
LF_2	Functional length 2
LF_3	Functional length 3
LFSF	Distance to face
LH	Head length
LPCON	Connection protruding length
LPR	Protruding length
LS	Shank length
LSC	Clamping length machine side
LSCN	Clamping length minimum machine side
LSCX	Clamping length maximum machine side
LTA	length tool assembly
LU	Usable length
M	
MXC	Clamping force maximum
N	
NOF	Flute count
NT	Tooth count
O	
OAH	Overall height
OAL	Overall length
OAW	Overall width

Continued on next page

ISO designation system

ISO attribute	Feature Description
P	
PDPT	Profile depth insert
PDX	Profile distance ex
PDY	Profile distance ey
PHD	Premachined hole diameter
PL	Point length
PLGL	Plug length
PNA	Profile included angle
PRFA	Profile angle
PRFRAD	Profile radius
PRFRAD1	Profile radius 1
PRFRAD2	Profile radius 2
PRFRAD3	Profile radius 3
PSIR	Tool lead angle
R	
RA	Relief angle
RADH	Radial height
RADW	Radial width
RADWOF	Radial offset width
RAL	Relief angle lh
RAR	Relief angle rh
RCSK	Radius countersunk
RE	Corner radius
RE_1	Corner radius 1
RE_2	Corner radius 2
RE_3	Corner radius 3
REL	Corner radius left hand
RETL	Flank radius left hand
RETR	Flank radius right hand
RHCDL	Radial height chamfer distance lower
RHCDU	Radial height chamfer distance upper
RPMX	Rotational speed maximum
S	
S	Insert thickness
S1	Insert thickness total
SD	Step distance
SDL	Step diameter length
SDL_1	Step diameter length 1
SDL_2	Step diameter length 2
SZID	nominal size
T	
TD	Thread diameter
TDIN	Thread diameter, inch measure
THID	Thread designation inside
THL	Thread cutting part length
THOD	Thread designation outside
THSZMS	Connection thread nominal size
THSZWS	Connection thread nominal size workpiece side
TP	Thread pitch
TPI	Threads per inch
TQX	Torque maximum

ISO attribute	Feature Description
W	
W1	Insert width
WF	Functional width
WF2	Functional width 2
WT	Weight of item
Z	
ZEFF	Face effective cutting edge count
ZEFP	Peripheral effective cutting edge count
ZNF	Face mounted insert count
ZNP	Peripheral mounted insert count

