

Metal Table EN - JIS 1

EN Material No.	EN Denomination	JIS Material No.	Material Description	Ø min.	Ø max.	Condition	Re-Rp0,2 in MPa	Rm in MPa	A in %	Hardness Unit	Hardness Value
1.0028	S205G1T (USL34)	S8330	unalloyed mild steel				195	330-430	26		
1.0034	S205G2T (RSL34)	STKM11A	unalloyed mild steel								
1.0035	S185 (SL33)	SGP	unalloyed construction steel / pipe steel				175-185	290			
1.0035	S185 (SL33)	SGPW	unalloyed construction steel / pipe steel / galvanized					290			
1.0038	S235JRG2 (RSL37,2)	STKM12[A/C]	unalloyed mild steel			killed	215	340-470		HB	120
1.0040	Ust.42.2	SS400[D]	unalloyed structural steel			unkilled		400-510			
1.0042	RSt.42.2	SS400[D]	unalloyed mild steel					400-510			
1.0050	E295 (SL50,2)	SS490	unalloyed mild steel				265-295	470-610	20		
1.0060	E335 (SL60,2)	SS540	unalloyed mild steel					>540			
1.0136	SL42.3	SS400[D]	unalloyed mild steel					400-510			
1.0254	S235 (SL37)	STPG370	unalloyed construction steel / pipe steel								
1.0255	SL37-4	STPT370	unalloyed construction steel / pipe steel for high temperature			(<350°C)					
1.0301	C10	S10C	unalloyed construction steel / for case hardening				290-380	400-650			
1.0303	C4C (OST.32,3)	SWRCH	cold formed steel / for steel wires								
1.0305	P235G1TH (SL35.8)	STPT370	unalloyed construction steel / pipe steel for high temperature			(<350°C)					
1.0320	SL22	SPHC	unalloyed steel / deep drawable / [hot coiled]					270	27-31		
1.0330	DC01 (SL12)	SPCC[S/D]	unalloyed steel / deep drawable / [solid drawn]				140-280	270-410	28-39	HB	90-120
1.0401	C15R	S15C	unalloyed construction steel / for case hardening				430	600-750			
1.0402	C22	S20C	unalloyed construction steel / for quenching and tempering / for heat treatment	16			340	470-620	22		
1.0406	C25	S20C	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	370	500-650	23		
1.0480	H240LA	STKM13A	unalloyed construction steel / pipe steel				240-310	340	27		
1.0501	1C35 (C35)	S35C	unalloyed construction steel / for quenching and tempering / for heat treatment	16		QT	430	630-780			
1.0503	C45	S45C	unalloyed construction steel / for quenching and tempering / for heat treatment			case hardened		650-800		HRc	49-55
1.0503	C45	S45C	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	305-340	580	16		
1.0503	C45	S45C	unalloyed construction steel / for quenching and tempering / for heat treatment	16	40	QT	340-390	640-790			
1.0511	C40	S40C	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	320	580			
1.0511	C40	S40C	unalloyed construction steel / for quenching and tempering / for heat treatment	16		QT	460	650-800	16		
1.0535	C55	S55C	unalloyed construction steel / for quenching and tempering / for heat treatment				550	800-950			
1.0601	C60	S58C	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	340-380	670-710	11		
1.0702	U10S10	SUM11	unalloyed steel / free cutting steel								
1.0710	1S10	SUM31[L]	unalloyed steel / free cutting steel					400-560			
1.0711	9S20	SUM21	unalloyed steel / free cutting steel					370-450		HB	100-130
1.0715	9SMn28	SUM22[L]	unalloyed steel / free cutting steel							HB	110-170
1.0718	9SMnPb28	SUM24L	unalloyed steel / free cutting steel					390-580		HRc	35-41
1.0723	1S20	SUM32	unalloyed steel / free cutting steel								
1.0736	9SMn36	SUM25	unalloyed steel / free cutting steel					<500			
1.1121	2C10 (C10E; Ck10)	S09CK	unalloyed construction steel / for case hardening				295-390	490-640	16		
1.1133	20Mn5	SMnC420[H]	structural / heat treatment steel [increased Carbon content]					<800			
1.1141	C15E (Ck15)	S15C	unalloyed construction steel / for case hardening			case hardened	355	590-780	14	HRc	49-55
1.1149	3C22 (Cm22/C22R)	S22C	unalloyed construction steel / for quenching and tempering / for heat treatment				340	470-620			
1.1151	C22E (Ck22)	S20C	unalloyed construction steel / for quenching and tempering / for heat treatment	16		QT	290-340	470-620	22		
1.1151	C22E (Ck22)	S20C	unalloyed construction steel / for quenching and tempering / for heat treatment				210-340	410-500			
1.1158	C25E (Ck25)	S25C	unalloyed construction steel / for quenching and tempering / for heat treatment	16		QT	370	550-700	21		
1.1160	22Mn6	SMn420[H]	structural / heat treatment steel [increased Carbon content]								
1.1165	30Mn5	SMn433[H]	structural / nitriding steel / heat treatment steel [increased Carbon content]					<900			
1.1166	34Mn5	SMn433[H]	structural / nitriding steel / heat treatment steel [increased Carbon content]					750-950			
1.1167	36Mn5	SMn438[H]	structural / heat treatment steel [increased Carbon content]					800			
1.1175	41Mn4	SMn443[H]	structural / heat treatment steel [increased Carbon content]								
1.1178	C30	S30C	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	280	510			
1.1178	C30	S30C	unalloyed construction steel / for quenching and tempering / for heat treatment	16		QT	400	600-750			
1.1181	C35E (Ck35)	S35C	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	270-300	520	19		
1.1191	C45E (Ck45)	S45[CD]	unalloyed construction steel / for quenching and tempering / for heat treatment [cold drawn]	16		QT	490	700-850	14		
1.1191	C45E	S45-D	unalloyed construction steel / for quenching and tempering / for heat treatment								
1.1203	C55E (Ck55)	S55C	unalloyed construction steel / for quenching and tempering / for heat treatment				550	800-950			
1.1206	C50E (Ck50)	S50C	unalloyed construction steel / for quenching and tempering / for heat treatment				520	750			
1.1207	C10R	S10C	unalloyed construction steel / for case hardening					400			
1.1210	C53E (Ck53)	S53C	unalloyed construction steel / for quenching and tempering / for heat treatment	16	40	QT	370	630-780			
1.1213	C50	S50C	unalloyed construction steel / for quenching and tempering / for heat treatment					640			
1.1221	C60E (Ck60)	S58C	unalloyed construction steel / for quenching and tempering / for heat treatment			QT	580	850-1000			
1.1223	C60R	S58C	unalloyed construction steel / for quenching and tempering / for heat treatment			case hardened	450-580	800-950	13	HRc	49-55
1.1262	C82D2	SUP3	alloyed construction steel / for quenching and tempering / for heat treatment								
1.1525	C80W1	SK5	unalloyed tool steel for cold work								
1.1545	C105W1	SK3	unalloyed tool steel for cold work							HRc	52-58
1.1625	C80W2	SK6	unalloyed tool steel for cold work							HRc	52-58
1.1645	C105W2	SK3	unalloyed tool steel for cold work								
1.1740	C60W	SK7	unalloyed tool steel for cold work					1000			
1.1830	C85W	SK5	unalloyed tool steel for cold work								
1.2008	140Cr3 (---)	SKS8	unalloyed tool steel for cold work								
1.2067	102Cr6	SUJ2	unalloyed tool steel / ball bearing steel			annealed		675		HB	230
1.2080	X210Cr12	SKD1	unalloyed tool steel								
1.2083	X42Cr13	SUS420J2	alloyed stainless steel / acid proof			C1		850-1000	10	HRc	>68
1.2343	X38CrMoV5-1	SKD6	unalloyed tool steel for cold work					1550			
1.2344	X40CrMoV5-1	SKD61	unalloyed tool steel for cold and hot work					1180-1770		HRc	>68
1.2363	X100CrMoV5-1	SKD12	unalloyed tool steel for cold work							HRc	>68
1.2365	X32CrMoV3-3	SKD7	unalloyed tool steel for hot work								
1.2379	X155CrVMo12-1	SKD11	unalloyed tool steel for cold work							HRc	>68
1.2419	105WC6	SKS2/3/31	unalloyed tool steel for cold work			hardened		<1000		HRc	58-64
1.2510	100MnCrW4 (---)	SKS3	unalloyed tool steel for cold work								
1.2541	35WCv7	SKS41	unalloyed tool steel for cold work								
1.2542	45WCv7	SKS41	unalloyed tool steel for cold work								
1.2552	80WCv8	SKS42	unalloyed tool steel for cold work								
1.2567	X30WCv5-3	SKD4	unalloyed tool steel for hot work								
1.2581	X30WCv9-3	SKD5	unalloyed tool steel for hot work								

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All information is based on values and properties which are achieved typically and are only for assessment of materials (typical values). Properties herein shall not be located directly to a product and there is no supposition that any product achieves these values. For proof values own checks are necessary or you may request the direct related value from Misumi.

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1.2713	55NiCrMoV6	SKT3/SKT4	unalloyed tool steel for cold and hot work					930~1420		HRC	55~60
1.2833	100V1	SKS43	unalloyed tool steel for cold work					<1000			
1.3202	S12-1-4-5	SKH10	alloyed high speed steel with Co								
1.3207	S10-4-3-10	SKH57	alloyed high speed steel with Co								
1.3243	S6-5-2-5	SKH55	alloyed high speed steel with Co								
1.3247	S2-10-1-8	SKH59	alloyed high speed steel with Co								
1.3343	S6-5-2	SKH51/SUH3	alloyed high speed steel without Co			hardened		≤1000		HRC	60~68
1.3344	S6-5-3	SKH52/SKH53	alloyed high speed steel without Co								
1.3355	S18-0-1	SKH2	alloyed high speed steel without Co								
1.3505	100Cr6	SUJ2	unalloyed tool steel / ball bearing steel			annealed		675		HB	230
1.3505	100Cr6	SUJ2	unalloyed tool steel / ball bearing steel			hardened		≤850		HRC	58~65
1.3565	48CrMo4	SNC836	unalloyed bearing steel					1080			
1.4000	X6Cr13	SUS403	alloyed stainless steel / acid proof			F		600			
1.4001	X7Cr14	SUS429	alloyed stainless steel / acid proof			F		530~680			
1.4002	X6CrAl13	SUS405	alloyed stainless steel / acid proof / heat resistant			F			10		
1.4005	X12CrS13	SUS416	alloyed stainless steel / acid proof			M		540	25		
1.4006	X10Cr13	SUS410	alloyed steel / stainless and acidproof / for cold extrusion			C1		730	20		
1.4006	X10Cr13	SUS410	alloyed steel / stainless and acidproof steel / for cold extrusion			QT		1200	7	HRC	37
1.4006	X10Cr13	SUS410	alloyed steel / stainless and acidproof steel / for cold extrusion					380	45		
1.4016	X6(8)Cr17	SUS430	alloyed stainless steel / acid proof / heat resistant			F1	240	450~630	12~20	HB	130~170
1.4021	X20Cr13	SUS420J	alloyed stainless steel / acid proof			C1		800~1000	8~12	HRC	40
1.4024	X15Cr13	SUS410J1	alloyed steel / stainless and acidproof steel / for cold extrusion								
1.4029	X29CrS13	SUS420	alloyed stainless steel / acid proof								
1.4029	X29CrS13	SUS420F	alloyed stainless steel / acid proof			M					
1.4031	X38Cr13	SUS420J2	alloyed stainless steel / acid proof			C1		800			
1.4034	X46Cr13	SUS420J2	alloyed stainless steel / acid proof			C1			11		
1.4057	X17CrNi16-2	SUS431	alloyed stainless steel / acid proof			C3		800~950	12~14		
1.4057	X17CrNi16-2	SUS431	alloyed stainless steel / acid proof				280	980		HB	280
1.4104	X12CrMoS17-2	SUS430F	alloyed stainless steel / acid proof / heat resistant			F		840			
1.4112	X9CrMoV18	SUS440B	alloyed stainless steel / acid proof			C				HRC	>68
1.4113	X6CrMo17-1	SUS434	alloyed steel / stainless and acidproof steel / for cold extrusion			F1		450~630	18		
1.4125	X105CrMo17	SUS440C	alloyed stainless steel / acid proof			C3 QT		780	15	HRC	50
1.4131	X1CrMo26-1	SUSXM27	alloyed stainless steel					570	25		
1.4301	X5CrNi18-10	SUS304	alloyed stainless steel / acid proof			A2	190	540~750	45		
1.4301	X5CrNi18-10	SUS304-CSP	alloyed stainless steel / acid proof / spring steel / cold cold								
1.4301	X5CrNi18-10	SUS304-D	alloyed stainless steel / acid proof								
1.4301	X5CrNi18-10	SUS304-H	alloyed stainless steel / acid proof								
1.4301	X5CrNi18-10	SUS304-TP	alloyed stainless steel / acid proof								
1.4301	X5CrNi18-10	SUS304-WPB	alloyed stainless steel / acid proof								
1.4301	X5CrNi18-10	SUS304-WPC	alloyed stainless steel / acid proof / spring steel			(>180 °C)		700			
1.4301	X5CrNi18-10	SUS316-TP	alloyed stainless steel / acid proof								
1.4303	X4CrNi18-12	SUS305[J1]	alloyed stainless steel / acid proof			A2		500/650	45		
1.4305	X10CrNiS18-9	SUS303	alloyed stainless steel / acid proof			A1		520	40	HRC	>68
1.4305	X8CrNi18-9	SUS303	alloyed stainless steel / acid proof			A1	190	500~750	35		
1.4306	X2CrNi19-11	SUS304L	alloyed stainless steel / acid proof			A2		520~670	40~45		
1.4308	G-X6CrNi18-9	SCS13	stainless steel casting								
1.4310	X10CrNi18-8	SUS301J1-CSP	alloyed steel / stainless and acidproof steel / for cold extrusion			A	195	500~750			
1.4311	X2CrNi18-10	SUS304LN	alloyed stainless steel / acid proof			A	270	550~760			
1.4319	X3CrNi17-8	SUS301	alloyed steel / stainless and acidproof steel / for cold extrusion			A		500~750			
1.4371	X2CrMnNi17-7-5	SUS202	alloyed stainless steel						40		
1.4401	G-X5CrNiMo17-12-2	SCS22	stainless steel casting								
1.4401	X5CrNiMo17-12-2	SUS316	alloyed stainless steel / acid proof				220	520~700	40	HB	130~180
1.4401	X5CrNiMo17-12-2	SUS316-WPA	alloyed stainless steel / acid proof / spring steel			A (>290°C)					
1.4401	X5CrNiMo17-12-2	SUS316-WPB	alloyed stainless steel / acid proof / spring steel			A (>290°C)					
1.4404	X2CrNiMo17-12-2	SUS316L	alloyed stainless steel / acid proof			A4		530~680	40		
1.4406	X2CrNiMo17-12-2	SUS316LN	alloyed stainless steel / acid proof			A4					
1.4429	X2CrNiMo17-13-3	SUS316LN	alloyed stainless steel / acid proof			A4	220	500~700	40	HB	130~170
1.4435	X2CrNiMo18-14-3	SUS316L	alloyed stainless steel / acid proof			A4		500~700	40	HV	120
1.4436	X3CrNiMo17-13-3	SUS316	alloyed stainless steel / acid proof			A4		550~700	40		
1.4438	X2CrNiMo18-15-4	SUS316	alloyed stainless steel / acid proof			A4		550~700	40		
1.4438	X2CrNiMo18-16-4	SUS317L	alloyed stainless steel / acid proof					550~700			
1.4449	X3CrNiMo18-12-3	SUS317	alloyed stainless steel			A					
1.4460	X8CrNiMo27-5	SUS329J1	alloyed stainless steel / acid proof			AF					
1.4510	X6CrTi17	SUS430LX	alloyed stainless steel / acid proof / heat resistant								
1.4511	X8CrNb17	SUS430LX	alloyed stainless steel / acid proof / heat resistant								
1.4512	X5CrTi12	SUH409[L]	alloyed stainless steel / acid proof / heat resistant			F					
1.4522	X2CrMoTi18-2	SUS444	alloyed stainless steel / valve steel / highly heat resistant / weldable without treatment					450	35		
1.4541	X6CrNiTi18-10	SUS321	alloyed stainless steel / weldable without treatment / tough to subzero temperature			A2	200	520~720	40	HB	130~190
1.4542	X5CrNiCuNb16-4	SUS630	alloyed stainless steel / acid proof / complete hardenable			aged		1030~1300	10~11	HRC	41~42
1.4542	X5CrNiCuNb16-4	SUS630	alloyed stainless steel / acid proof / complete hardenable					800	14	HV	250
1.4550	X6CrNiNb18-10	SUS347	alloyed stainless steel / acid proof			A2		520~720	40	HB	130~190
1.4550	X10CrNiNb18-9	SUS347	alloyed stainless steel / acid proof					520~750			
1.4567	X3CrNiCu18-9-4	SUSXM7	alloyed stainless steel / acid proof / with special elements								
1.4568	X7CrNiAl17-7	SUS631	alloyed stainless steel / acid proof / complete hardenable					1230			
1.4568	X7CrNiAl17-7	SUS631J1-WPC	alloyed stainless steel / acid proof / spring steel / complete hardenable			(>340 °C)		1400~2200			
1.4718	X45CrSi9-3	SUH1	alloyed valve steel / heat resistant			C					
1.4720	X6CrTi12	SUH409[L]	alloyed stainless steel / acid proof / heat resistant			F					
1.4724	X10CrAl11-3	SUS405	alloyed stainless steel / acid proof / heat resistant			F					
1.4731	X40CrSiMo10-2	SUH3	alloyed high speed steel without Co								
1.4742	X10CrAl(Si)18	SUS430	alloyed stainless steel / acid proof / heat resistant				270	500~700	15		
1.4747	X80CrNiSi20	SUH4	alloyed stainless steel / acid proof / heat resistant			C					
1.4762	X10CrAlSi25	SUH446	alloyed stainless steel / acid proof / heat resistant			F	280	520~720	10		
1.4828	X15CrNiSi20-12	SUH309	heatresistant steel			A	230~290	500~750	30~40	HB	130~220

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Metal Table EN - JIS 3

EN Material No.	EN Denomination	JIS Material No.	Material Description	Ø min.	Ø max.	Condition	Re-Rp0,2 in MPa	Rm in MPa	A in %	Hardness Unit	Hardness Value
1.4833	X12CrNi23-13	SUS309S	alloyed stainless steel / acid proof / heat resistant			A					
1.4833	X7CrNi23-14	SUS309S	alloyed stainless steel / acid proof / heat resistant								
1.4841	X15CrNiSi25-20	SUH310	alloyed stainless steel / acid proof / heat resistant			A	230-300	550-750	30-40		
1.4845	X12CrNi25-21	SUH310	alloyed stainless steel / acid proof / heat resistant			A	230-300	550-750	30-40		
1.4871	X53CrMnNiN21-9	SUH35/SUH36	alloyed stainless steel / valve steel / highly heat resistant								
1.4873	X45CrNiW18-9	SUH31	alloyed stainless steel / valve steel / heat resistant								
1.4878	X8CrNiTi18-10	SUS321	alloyed stainless steel / acid proof			A	190	500-720	40		
1.4935	X20CrMoWV12-1	SUH616	alloyed stainless steel / valve steel / highly heat resistant			C					
1.4943	X4NiCrTi25-15	SUH660	alloyed stainless steel / valve steel / highly heat resistant / weldable without treatment			A					
1.4971	X12CrCoNi21-20	SUH661	alloyed stainless steel / valve steel / highly heat resistant			A					
1.5026	56Si7	SUP7	alloyed construction steel / valve steel / warm drawn spring steel						45		
1.5710	36NiCr6	SNC236	alloyed structural steel								
1.5732	14NiCr10	SNC415[H]	alloyed construction steel / case hardening steel / higher carbon content					575			
1.5736	36NiCr10	SNC631[H]	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content		40	QT	780	1030-1180			
1.5736	36NiCr10	SNC631[H]	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content	40	100	QT	690	880-1030			
1.5736	36NiCr10	SNC631[H]	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content	100	250	QT	590	740-880			
1.5752	14NiCr14	SNC815[H]	alloyed construction steel / case hardening steel / higher carbon content					930-1230			
1.5755	31NiCr14	SNC836	alloyed bearing steel		40	QT	840	980-1130	11		
1.5755	31NiCr14	SNC836	alloyed bearing steel	40	100	QT	740	880-1030	12		
1.5755	31NiCr14	SNC836	alloyed bearing steel	100	250	QT	590	790-930	14		
1.6511	36CrNiMo4	SNCM447	alloyed construction steel / for quenching and tempering / for heat treatment			QT	800-1000	1100-1300	10		
1.6511	36CrNiMo4	SNCM447	alloyed construction steel / for quenching and tempering / for heat treatment			QT	≥1000	1200-1400	9	HB	355-410
1.6523	20NiCrMo2-2	SNCM220[H]	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content				590	980-1270	10		
1.6546	40NiCrMo2-2	SNCM240	alloyed construction steel / for quenching and tempering / for heat treatment								
1.6562	40NiCrMo8-4	SNB23 [1-5]	alloyed construction steel / for quenching and tempering / for heat treatment								
1.6565	40NiCrMo6	SNCM616	alloyed construction steel / for quenching and tempering / for heat treatment								
1.6580	30CrNiMo8	SNCM431	alloyed construction steel / for quenching and tempering / for heat treatment			QT	1050	1250-1450			
1.6582	34CrNiMo8	SNCM439	alloyed construction steel / for quenching and tempering / for heat treatment			QT	700-900	1000-1200	11		
1.6587	17CrNiMo8	SNCM420[H]	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content								
1.6657	14NiCrMo34	SNCM815	alloyed construction steel / for quenching and tempering / for heat treatment								
1.6900	X12CrNi18-9	SUS302	alloyed stainless steel / acid proof			A					
1.6901	X12CrNi18-10	SUS301-WPA	alloyed stainless steel / acid proof / spring steel			A (>290°C)					
1.6902	X12CrNi18-11	SUS301-WPB	alloyed stainless steel / acid proof / spring steel			A (>290°C)					
1.7015	15Cr3	SCr415[H]	alloyed construction steel / case hardening steel / higher carbon content								
1.7016	17Cr3	SCr415[H]	alloyed construction steel / case hardening steel / higher carbon content				450	800-1050	11		
1.7027	20Cr4	SCr420[H]	alloyed construction steel / case hardening steel / higher carbon content					<1000			
1.7033	34Cr4	SCr430	alloyed construction steel / for quenching and tempering / for heat treatment				635	780	18		
1.7033	34Cr4	SCr430[H]	alloyed construction steel / for quenching and tempering / for heat treatment				700-740	880-1000	15		
1.7034	37Cr4	SCr435[H]	alloyed construction steel / for quenching and tempering / for heat treatment	16	40	QT	650	880-1080			
1.7035	41Cr4/42Cr4	SCr440	alloyed construction steel / for quenching and tempering / for heat treatment				785	930	13		
1.7035	41Cr4/42Cr4	SCr440[H]	alloyed construction steel / for quenching and tempering / for heat treatment	16	40	QT	780	950-1150	11		
1.7102	54SiCr6	SUP12	alloyed construction steel / for quenching and tempering / for heat treatment / hot rolled spring steel				1130	1320-1570	6		
1.7108	60SiCr7	SUP7	alloyed construction steel / valve steel / warm drawn spring steel				1130	1320-1570	6		
1.7138	52MnCrB3	SUP11A	alloyed construction steel / for quenching and tempering / for heat treatment								
1.7147	20MnCr5	SMnC420[H]	structural / heat treatment steel (increased Carbon content)				685	1080-1370	8	HB	215
1.7176	55Cr3 (~~)	SUP9A	alloyed construction steel / for quenching and tempering / for heat treatment								
1.7218	25CrMo4	SCM430	alloyed construction steel / for quenching and tempering / for heat treatment	16	QT		700	900-1100	18	HRc	58
1.7218	25CrMo4	SCM430	alloyed construction steel / for quenching and tempering / for heat treatment	16	QT		680	550-700	12	HB	215-260
1.7218	25CrMo4	SCM430	alloyed construction steel / for quenching and tempering / for heat treatment	16	40	QT	600	800-950	14	HB	215-260
1.7218	25CrMo4	SCM430	alloyed construction steel / for quenching and tempering / for heat treatment	40	100	QT	450	700-850	15	HB	215-260
1.7220	34CrMo4	SCM435[H]	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content				800	1000-1200			
1.7220	34CrMo4	SCM440	alloyed construction steel / for quenching and tempering / for heat treatment / for flame-induction hardening				835	980	12		
1.7223	41CrMo4	SCM440H	alloyed construction steel / for quenching and tempering / for heat treatment / for flame-induction hardening				880	980-1180			
1.7223	41CrMo4	SNB21 [1-5]	alloyed construction steel / for quenching and tempering / for heat treatment			QT	880	980-1180			
1.7223	41CrMo4	SNB22 [1-5]	alloyed construction steel / for quenching and tempering / for heat treatment			QT	450-700	700-900			
1.7225	42CrMo4	SCM440H	alloyed construction steel / for quenching and tempering / for heat treatment / for flame-induction hardening				900	1100-1300			
1.7225	42CrMo4	SNB7	alloyed construction steel / for quenching and tempering / for heat treatment	16	40	QT	650-900	900-1200	11	HRc	38
1.7242	16CrMo4	SCM415[H]	alloyed construction steel / case hardening steel / higher carbon content								
1.7243	18CrMo4	SCM418[H]	alloyed construction steel / case hardening steel / higher carbon content	16	case hardened		850	1100-1350	9		
1.7243	18CrMo4	SCM418[H]	alloyed construction steel / case hardening steel / higher carbon content	16	40 case hardened		690	950-1300	9		
1.7243	18CrMo4	SCM418[H]	alloyed construction steel / case hardening steel / higher carbon content	40	100 case hardened		600	800-1150	10		
1.7258	24CrMo5	SCM420H	alloyed construction steel / case hardening steel / higher carbon content					800-950			
1.7262	16CrMo4	SCM445	alloyed construction steel / for quenching and tempering / for heat treatment								
1.7262	16CrMo4	SNCM415	alloyed construction steel / for quenching and tempering / for heat treatment								
1.7264	20CrMo5	SCM420	alloyed construction steel / case hardening steel		16		600	1000	12		
1.7264	20CrMo5	SCM420	alloyed construction steel / case hardening steel	16	40		500	850	14		
1.7264	20CrMo5	SCM420	alloyed construction steel / case hardening steel	40	100		400	750	16		
1.7264	20CrMo5	SCM421	alloyed construction steel / case hardening steel								
1.7350	22CrMo44	SNCM822	alloyed construction steel / for quenching and tempering / for heat treatment								
1.7711	40CrMoV4-7	SNB16	alloyed construction steel / for quenching and tempering / for heat treatment			QT	470-700	850-1000	14		
1.8159	50CrV4/51CrV 4	SUP10	alloyed construction steel / for quenching and tempering / for heat treatment				1180	1350-1600			
ZP0401 (2,2141)	ZnAl4Cu1	ZDC1	zinc die cast								
3.7035	Ti99.5 (Ti2)	TP340	titanium				min.215	390-540	22		
1.2083 (~~)	X42Cr12+S (~~)	PX5	mould steel (Daido), (AIS: modified P20)								
1.2085 (~~)	X3CrMo16-1 (~~)	G-Star	(AIS: mod.420);easy machinable special mould steel (Daido)							HRc	ca. 37
1.2316 (~~)	X36CrMo17+S (~~)	PX5	mould steel (Daido), (AIS: modified P20)								
1.4605 (~~)	X2CrAlTi18-2 (~~)	KCF	alloyed stainless steel / acid proof / with special elements								
CC491K	CuSn5Zn5(RG5)	CAC406C	bronze cast (BC6)			H12		50	35		
CC491K	CuSn5Zn5(RG5)	CAC406C	bronze cast (BC6)			0		40	60		
CC491K	CuSn5Zn5(RG5)	CAC406C	bronze cast (BC6)	2	60	R340	230	340	45	HB	100
CC491K	CuSn5Zn5(RG5)	CAC406C	bronze cast (BC6)	2	40	R400	250	400	26	HB	125
CC491K	CuSn5Zn5(RG5)	CAC406C	bronze cast (BC6)	2	12	R470	350	470	15	HB	170
CC491K	CuSn5Zn5(RG5)	CAC406C	bronze cast (BC6)	2	6	R550	500	550		HB	200

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EN Material No.	EN Denomination	JIS Material No.	Material Description	Ø min.	Ø max.	Condition	Re-Rp0,2 in MPa	Rm in MPa	A in %	Hardness Unit	Hardness Value
CC762S	CuZn25Al5	CAC304	bronze cast				450-480	750	10		
CC766S	CuZn37Al1	C6782	brass				170	450	25		
CW004A	Cu-ETP	C1100	pure copper				50-150	245-300	45		
CW008A	Cu-OF	C1020	pure copper / oxygen free				50-150	245-300	45		
CW024A	Cu-DHP (SF-Cu)	C1220	pure phosphorus desoxidated copper								
CW101C	CuBe2	C1730	copper beryllium alloy for springs				1200	1300			
CW452K	CuSn6P	C5191[B]	phosphorus bronze (PBC2)				300-600	350-650		HB	75-190
CW505L	CuZn30	C2600	brass				160-470	270-520		HB	55-150
CW505L	CuZn30	C2600	brass				130-810	300-830		HB	65-200
CW508L	CuZn37	C2700	brass				150-580	300-610		HB	55-190
CW509L	CuZn40	C2801	brass				240-390	340-500		HB	75-130
CW509L	CuZn40	C2801	brass				270-500	350-550	10		
CW614N	CuZn39Pb3	C3602[BD]	brass			F		315			
CW614N	CuZn39Pb3	C3604	brass			F 37; 44, 51	250-390	360-500	90-145		
CW617N	CuZn40Pb2	C3771	brass				200	315-390	15		
CW617N	CuZn40Pb2	C3771	brass					510		HB	145
CW617N	CuZn40Pb2	C3771	brass				300-570	380-610		HB	90-165
EN AC-42100	G-ALSi10Mg	AC4A	aluminium cast alloy			T6	190-210	230-290	2-4		
EN AC-42100	G-ALSi10Mg	AC4A	aluminium cast alloy			T64	180	250	8	HB	75-90
EN AC-46100	G-ALSi12Cu	ADC12	aluminium cast alloy (-ALSi11Cu2,5Fe)				186	296	2		
EN AC-46100	G-ALSi12Cu	ADC12	aluminium cast alloy (-ALSi11Cu2,5Fe)				80-150	150-220	1-4	HB	60-90
EN AC-51300	G-ALMg5	AC7A	aluminium cast alloy			F	105	245	5.3	HB	80
EN AC-51300	G-ALMg5	AC7A	aluminium cast alloy				90-100	140-150	2	HB	55-70
EN AC-51400	ALMgSi0,7	A6N01	special alloy for extrusion moulding (-ALSi0,5Mg)			T5	214.2	255	8		
EN AC-51400	ALMgSi0,7	A6N01	special alloy for extrusion moulding (-ALSi0,5Mg)			T6	261	277	8-12		
EN AC-51400	ALMgSi0,7	A6N01	special alloy for extrusion moulding (-ALSi0,5Mg)			0	ca.48	ca.120			
EN AW-6060	ALMgSi	A6N01	special alloy for extrusion moulding (-ALSi0,5Mg)								
EN AW-1050A	Al99,5	A1050	pure aluminium / non heat-treatable			0	20-60	60-95	23		
EN AW-1050A	Al99,5	A1050	pure aluminium / non heat-treatable				55-130	65-170	~40	HB	20-45
EN AW-2011	AlCu6BiPb	A2011	duraluminium / treatable			T3	296	379	15	HB	ca.105
EN AW-2011	AlCu6BiPb	A2011	duraluminium / treatable			T4	145	310	20	HB	ca.95
EN AW-2017	AlCu4MgSi	A2017	duraluminium / treatable			T3	250	400	10		
EN AW-2017	AlCu4MgSi	A2017	duraluminium / treatable			T4	240	390	12		
EN AW-4032	AlSi12,5MgCuNi	A4032	aluminium wrought alloy / non heat-treatable								
EN AW-5052	ALMg2,5	A5052	aluminium wrought alloy / non heat-treatable			H112	125	220	20	HB	65
EN AW-5052	ALMg2,5	A5052	aluminium wrought alloy / non heat-treatable			0	90	193	25		
EN AW-5056A	ALMg5	A5056A	aluminium wrought alloy / non heat-treatable			0	152	290	35		
EN AW-5056A	ALMg5	A5056A	aluminium wrought alloy / non heat-treatable			H38	345	414	15		
EN AW-5056A	ALMg5	A5056A	aluminium wrought alloy / non heat-treatable			0	110	240	15	HB	55
EN AW-5083	ALMg4,5Mn0,7	A5083	aluminium wrought alloy / non heat-treatable			H111	200	317	18		
EN AW-5083	ALMg4,5Mn0,7	A5083	aluminium wrought alloy / non heat-treatable			H112	125-140	275-300	12-15		
EN AW-5083	ALMg4,5Mn0,7	A5083	aluminium wrought alloy / non heat-treatable			0	110	270	12	HB	60
EN AW-6063	ALMg0,7Si	A6063	aluminium wrought alloy / treatable			0	50	100	27	HB	25
EN AW-6063	ALMg0,7Si	A6063	aluminium wrought alloy / treatable			T5	145	193	12		
EN AW-6063	ALMg0,7Si	A6063	aluminium wrought alloy / treatable			T6	214	241	12		
EN AW-7020	AlZn4,5Mg1	A7020	aluminium wrought alloy / treatable				140-270	320-350	9-15	HB	45-105
EN AW-7075	AlZn5,5MgCu	A7075	aluminium wrought alloy / treatable			0	103	228	17		
EN AW-7075	AlZn5,5MgCu	A7075	aluminium wrought alloy / treatable			T6	500	570	10		
EN AW-7075	AlZn5,5MgCu	A7075	aluminium wrought alloy / treatable			T651	490	550	12	HB	160
EN AW-7075	AlZn5,5MgCu (-)	ANP79	AlZnMgCu aluminium alloy (Daido)								
EN-AC 42200	G-ALSi7Mg	AC4C	aluminium cast alloy			T5	170-230	210-270	4-7	HB	75-90
EN-JL1030	EN-GJL-200 (GG-20)	FC200	grey cast iron; flake-graphite cast iron				210	200			
EN-JL1030	EN-GJL-200 (GG-20)	FC200	grey cast iron; flake-graphite cast iron				Rp0,1/>165	200-300			
EN-JL1040	EN-GJL-250 (GG-25)	FC250	grey cast iron; flake-graphite cast iron				240	250			
EN-JL1040	EN-GJL-250 (GG-25)	FC250	grey cast iron; flake-graphite cast iron				Rp0,1/>230	250-350			
EN-JL1050	EN-GJL-300	FC300	grey cast iron; flake-graphite cast iron								
EN-JM1130 (~~)	EN-GJMB 350-10 (~~)	FCMB270	black-heart malleable cast iron								
EN-JS1040	EN-GJS400 (GGG-40)	FCD450	nodular cast iron; ductile cast iron				310	<450			
EN-JS1060	EN-GJS600 (GGG-60)	FCD600	nodular cast iron; ductile cast iron				370	<600	3		
ZC0400	ZnAl4	ZDC2	zinc die cast				230	300	7		
(JIS)	untranslatable	DC53	general purpose cold work tool/mold steel (Daido)								
(JIS)	untranslatable	NAK55	pre-hardened mold steel (Daido)								
(JIS)	untranslatable	S12C	unalloyed construction steel / for case hardening								
ISO	TC140	SK1	unalloyed tool steel for cold work								
ISO	TC120	SK2	unalloyed tool steel for cold work								
ISO	TC90	SK4	unalloyed tool steel for cold work								
(JIS)	untranslatable	SKD8	unalloyed tool steel								
(JIS)	untranslatable	SKS11	unalloyed tool steel for cold work								
(JIS)	untranslatable	SKS21	unalloyed tool steel for cold work								
(JIS)	untranslatable	SKS44	unalloyed tool steel for cold work								
(JIS)	untranslatable	SKS5	unalloyed tool steel for cold work								
(JIS)	untranslatable	SKS7	unalloyed tool steel for cold work								
(JIS)	untranslatable	SKS93	unalloyed tool steel for cold work								
(JIS)	untranslatable	SKS94	unalloyed tool steel for cold work								
(JIS)	untranslatable	SKS95	unalloyed tool steel for cold work								
(JIS)	C43 (~~)	SMF5040	sintered carbon mould steel								
(JIS)	untranslatable	SNCM625	alloyed construction steel / for quenching and tempering / for heat treatment								
(JIS)	untranslatable	SNCM630	alloyed construction steel / for quenching and tempering / for heat treatment			QT		1150	10	HRc	35
(JIS)	untranslatable	SSPR	structural steel								
(JIS)	untranslatable	SSPSR	structural steel								
(JIS)	untranslatable	STPS2	seamless pipe for hydraulic fluids				180	450	30		
(JIS)	untranslatable	SUH11	alloyed valve steel / heat resistant			M					
(JIS)	untranslatable	SUH37	alloyed stainless steel / acid proof / heat resistant								

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Metal Table EN - JIS 5

[illegible]

Metal Table JIS - EN 1

JIS Material No.	EN Material No.	EN Denomination	Material Description	Ø min.	Ø max.	Condition	Re-Rp0,2 in MPa	Rm in MPa	A in %	Hardness Unit	Hardness Value
A1050	EN AW-1050A	Al99,5	pure aluminium / non heat-treatable			0	20~60	60~95	23		
A1050	EN AW-1050A	Al99,5	pure aluminium / non heat-treatable				55~130	65~170	~40	HB	20~45
A2011	EN AW-2011	AlCu6BiPb	duraluminium / treatable			T3	296	379	15	HB	ca.105
A2011	EN AW-2011	AlCu6BiPb	duraluminium / treatable			T4	145	310	20	HB	ca.95
A2017	EN AW-2017	AlCu4MgSi	duraluminium / treatable			T3	250	400	10		
A2017	EN AW-2017	AlCu4MgSi	duraluminium / treatable			T4	240	390	12		
A4032	EN AW-4032	AlSi12,5MgCuNi	aluminium wrought alloy / non heat-treatable								
A5052	EN AW-5052	AlMg2,5	aluminium wrought alloy / non heat-treatable			H112	125	220	20	HB	65
A5052	EN AW-5052	AlMg2,5	aluminium wrought alloy / non heat-treatable			0	90	193	25		
A5056A	EN AW-5056A	AlMg5	aluminium wrought alloy / non heat-treatable			0	152	290	35		
A5056A	EN AW-5056A	AlMg5	aluminium wrought alloy / non heat-treatable			H38	345	414	15		
A5056A	EN AW-5056A	AlMg5	aluminium wrought alloy / non heat-treatable			0	110	240	15	HB	55
A5083	EN AW-5083	AlMg4,5Mn0,7	aluminium wrought alloy / non heat-treatable			H111	200	317	18		
A5083	EN AW-5083	AlMg4,5Mn0,7	aluminium wrought alloy / non heat-treatable			H112	125~140	275~300	12~15		
A5083	EN AW-5083	AlMg4,5Mn0,7	aluminium wrought alloy / non heat-treatable			0	110	270	12	HB	60
A6063	EN AW-6063	AlMg0,7Si	aluminium wrought alloy / treatable			0	50	100	27	HB	25
A6063	EN AW-6063	AlMg0,7Si	aluminium wrought alloy / treatable			T5	145	193	12		
A6063	EN AW-6063	AlMg0,7Si	aluminium wrought alloy / treatable			T6	214	241	12		
AN001	EN AC-51400	AlMgSi0,7	special alloy for extrusion moulding (~AlSi0,5Mg)			T5	214,2	255	8		
AN001	EN AC-51400	AlMgSi0,7	special alloy for extrusion moulding (~AlSi0,5Mg)			T6	261	277	8~12		
AN001	EN AC-51400	AlMgSi	special alloy for extrusion moulding (~AlSi0,5Mg)			0	ca.48	ca.120			
A7020	EN AW-7020	AlZn4,5Mg1	aluminium wrought alloy / treatable				140~270	320~350	9~15	HB	45~105
A7075	EN AW-7075	AlZn5,5MgCu	aluminium wrought alloy / treatable			0	103	228	17		
A7075	EN AW-7075	AlZn5,5MgCu	aluminium wrought alloy / treatable			T6	500	570	10		
A7075	EN AW-7075	AlZn5,5MgCu	aluminium wrought alloy / treatable			T651	490	550	12	HB	160
AC4A	EN AC-42100	G-AlSi10Mg	aluminium cast alloy			T6	190~210	230~290	2~4		
AC4A	EN AC-42100	G-AlSi10Mg	aluminium cast alloy			T64	180	250	8	HB	75~90
AC4C	EN AC-42200	G-AlSi7Mg	aluminium cast alloy			T5	170~230	210~270	4~7	HB	75~90
AC7A	EN AC-51300	G-AlMg5	aluminium cast alloy			F	105	245	5,3	HB	80
AC7A	EN AC-51300	G-AlMg5	aluminium cast alloy				90~100	140~150	2	HB	55~70
ADC12	EN AC-46100	G-AlSi12Cu	aluminium cast alloy (~AlSi11Cu2,5Fe)				186	296	2		
ADC12	EN AC-46100	G-AlSi12Cu	aluminium cast alloy (~AlSi11Cu2,5Fe)				80~150	150~220	1~4	HB	60~90
ANP79	EN AW-7075	AlZn5,5MgCu (-)	AlZnMgCu aluminium alloy (Daido)								
C1020	CW008A	Cu-OF	pure copper / oxygen free				50~150	245~300	45		
C1100	CW004A	Cu-ETP	pure copper				50~150	245~300	45		
C1220	CW024A	Cu-DHP (SF-Cu)	pure phosphorous desoxidated copper								
C1730	CW101C	CuBe2	copper beryllium alloy for springs				1200	1300			
C2600	CW505L	CuZn30	brass				160~470	270~520		HB	55~150
C2600	CW505L	CuZn30	brass				130~810	300~830		HB	65~200
C2700	CW508L	CuZn37	brass				150~580	300~610		HB	55~190
C2801	CW509L	CuZn40	brass				240~390	340~500		HB	75~130
C2801	CW509L	CuZn40	brass				270~500	350~550	10		
C3602[BD]	CW614N	CuZn39Pb3	brass			F		315			
C3604	CW614N	CuZn39Pb3	brass			F 37; 44, 51	250~390	360~500	90~145		
C3771	CW617N	CuZn40Pb2	brass				200	315~390	15		
C3771	CW617N	CuZn40Pb2	brass					510		HB	145
C3771	CW617N	CuZn40Pb2	brass				300~570	380~610		HB	90~165
C5191[B]	CW452K	CuSn6P	phosphorus bronze (PBC2)				300~600	350~650		HB	75~190
C6782	CC766S	CuZn37Al1	brass				170	450	25		
CAC304	CC762S	CuZn25Al5	bronze cast				450~480	750	10		
CAC406C	CC491K	CuSn5Zn5(RG5)	bronze cast (BC6)			H12		50	35		
CAC406C	CC491K	CuSn5Zn5(RG5)	bronze cast (BC6)			0		40	60		
CAC406C	CC491K	CuSn5Zn5(RG5)	bronze cast (BC6)	2	60	R340	230	340	45	HB	100
CAC406C	CC491K	CuSn5Zn5(RG5)	bronze cast (BC6)	2	40	R400	250	400	26	HB	125
CAC406C	CC491K	CuSn5Zn5(RG5)	bronze cast (BC6)	2	12	R470	350	470	15	HB	170
CAC406C	CC491K	CuSn5Zn5(RG5)	bronze cast (BC6)	2	6	R550	500	550		HB	200
DC53	(JIS)	untranslatable	general purpose cold work tool/mold steel (Daido)								
FC200	EN-JL1030	EN-GJL-200 (GG-20)	grey cast iron; flake-graphite cast iron				210	200			
FC200	EN-JL1030	EN-GJL-200 (GG-20)	grey cast iron; flake-graphite cast iron				Rp0,1/>165	200~300			
FC250	EN-JL1040	EN-GJL-250 (GG-25)	grey cast iron; flake-graphite cast iron				240	250			
FC250	EN-JL1040	EN-GJL-250 (GG-25)	grey cast iron; flake-graphite cast iron				Rp0,1/>230	250~350			
FC300	EN-JL1050	EN-GJL-300	grey cast iron; flake-graphite cast iron								
FCD450	EN-JS1040	EN-GJS400 (GGG-40)	nodular cast iron; ductile cast iron				310	<450			
FCD600	EN-JS1060	EN-GJS600 (GGG-60)	nodular cast iron; ductile cast iron				370	<600	3		
FCMB270	EN-JM1130 (~~)	EN-GJMB 350-10 (~~)	black-heart malleable cast iron								
G-Star	1.2085 (~~)	X3CrMo16-1 (~~)	(AISI mod.420);easy machinable special mould steel (Daido)							HRc	ca.37
KCF	1.4605 (~~)	X2CrAlTi18-2 (~~)	alloyed stainless steel / acid proof / with special elements								
NAK55	(JIS)	untranslatable	pre-hardened mold steel (Daido)								
PX5	1.2083 (~~)	X42Cr12+S (~~)	mould steel (Daido), (AISI: modified P20)								
PX5	1.2316 (~~)	X36CrMo17+S (~~)	mould steel (Daido), (AISI: modified P20)								
S09CK	1.1121	2C10 (C10E; Ck10)	unalloyed construction steel / for case hardening				295~390	490~640	16		
S10C	1.0301	C10	unalloyed construction steel / for case hardening				290~380	400~650			
S10C	1.1207	C10R	unalloyed construction steel / for case hardening					400			
S12C	(JIS)	untranslatable	unalloyed construction steel / for case hardening								
S15C	1.0401	C15R	unalloyed construction steel / for case hardening				430	600~750			
S15C	1.1141	C15E (Ck15)	unalloyed construction steel / for case hardening			case hardened	355	590~780	14	HRc	49~55
S20C	1.0402	C22	unalloyed construction steel / for quenching and tempering / for heat treatment	16			340	470~620	22		
S20C	1.0406	C25	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	370	500~650	23		
S20C	1.1151	C22E (Ck22)	unalloyed construction steel / for quenching and tempering / for heat treatment	16		QT	290~340	470~620	22		
S20C	1.1151	C22E (Ck22)	unalloyed construction steel / for quenching and tempering / for heat treatment				210~340	410~500			
S22C	1.1149	3C22 (Cm22/C22R)	unalloyed construction steel / for quenching and tempering / for heat treatment				340	470~620			
S25C	1.1158	C25E (Ck25)	unalloyed construction steel / for quenching and tempering / for heat treatment	16		QT	370	550~700	21		

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Metal Table JIS - EN 2

JIS Material No.	EN Material No.	EN Denomination	Material Description	Ø min.	Ø max.	Condition	Re-Rp0.2 in MPa	Rm in MPa	A in %	Hardness Unit	Hardness Value
S30C	1.1178	C30	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	280	510			
S30C	1.1178	C30	unalloyed construction steel / for quenching and tempering / for heat treatment		16	QT	400	600~750			
S35C	1.0501	1C35 (C35)	unalloyed construction steel / for quenching and tempering / for heat treatment		16	QT	430	630~780			
S35C	1.1181	C35E (Ck35)	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	270~300	520	19		
S40C	1.0511	C40	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	320	580			
S40C	1.0511	C40	unalloyed construction steel / for quenching and tempering / for heat treatment		16	QT	460	650~800	16		
S45(CD)	1.1191	C45E (Ck45)	unalloyed construction steel / for quenching and tempering / for heat treatment [cold drawn]		16	QT	490	700~850	14		
S45C	1.0503	C45	unalloyed construction steel / for quenching and tempering / for heat treatment			case hardened		650~800		HRc	49~55
S45C	1.0503	C45	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	305~340	580	16		
S45C	1.0503	C45	unalloyed construction steel / for quenching and tempering / for heat treatment		16 40	QT	340~390	640~790			
S45-D	1.1191	C45E	unalloyed construction steel / for quenching and tempering / for heat treatment								
S50C	1.1206	C50E (Ck50)	unalloyed construction steel / for quenching and tempering / for heat treatment				520	750			
S50C	1.1213	C50	unalloyed construction steel / for quenching and tempering / for heat treatment					640			
S53C	1.1210	C53E (Ck53)	unalloyed construction steel / for quenching and tempering / for heat treatment		16 40	QT	370	630~780			
S55C	1.0535	C55	unalloyed construction steel / for quenching and tempering / for heat treatment				550	800~950			
S55C	1.1203	C55E (Ck55)	unalloyed construction steel / for quenching and tempering / for heat treatment				550	800~950			
S58C	1.0601	C60	unalloyed construction steel / for quenching and tempering / for heat treatment			annealed	340~380	670~710	11		
S58C	1.1221	C60E (Ck60)	unalloyed construction steel / for quenching and tempering / for heat treatment			QT	580	850~1000			
S58C	1.1223	C60R	unalloyed construction steel / for quenching and tempering / for heat treatment			case hardened	450~530	800~950	13	HRc	49~55
SCM415[H]	1.7242	16CrMo4	alloyed construction steel / case hardening steel / higher carbon content								
SCM418[H]	1.7243	18CrMo4	alloyed construction steel / case hardening steel / higher carbon content		16	case hardened	850	1100~1350	9		
SCM418[H]	1.7243	18CrMo4	alloyed construction steel / case hardening steel / higher carbon content		16 40	case hardened	690	950~1300	9		
SCM418[H]	1.7243	18CrMo4	alloyed construction steel / case hardening steel / higher carbon content		40 100	case hardened	600	800~1150	10		
SCM420	1.7264	20CrMo5	alloyed construction steel / case hardening steel		16		600	1000	12		
SCM420	1.7264	20CrMo5	alloyed construction steel / case hardening steel		16 40		500	850	14		
SCM420	1.7264	20CrMo5	alloyed construction steel / case hardening steel		40 100		400	750	16		
SCM420H	1.7258	24CrMo5	alloyed construction steel / case hardening steel / higher carbon content					800~950			
SCM421	1.7264	20CrMo5	alloyed construction steel / case hardening steel								
SCM430	1.7218	25CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment		16	QT	700	900~1100	18	HRc	58
SCM430	1.7218	25CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment		16	QT	680	550~700	12	HB	215~260
SCM430	1.7218	25CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment		16 40	QT	600	800~950	14	HB	215~260
SCM430	1.7218	25CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment		40 100	QT	450	700~850	15	HB	215~260
SCM435[H]	1.7220	34CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content				800	1000~1200			
SCM440	1.7220	34CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment / for flame-induction hardening				835	980	12		
SCM440H	1.7223	41CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment / for flame-induction hardening				880	980~1180			
SCM440H	1.7225	42CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment / for flame-induction hardening				900	1100~1300			
SCM445	1.7262	16CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment								
SCM822	1.7350	22CrMo44	alloyed construction steel / for quenching and tempering / for heat treatment								
SCr415[H]	1.7015	15Cr3	alloyed construction steel / case hardening steel / higher carbon content								
SCr415[H]	1.7016	17Cr3	alloyed construction steel / case hardening steel / higher carbon content				450	800~1050	11		
SCr420[H]	1.7027	20Cr4	alloyed construction steel / case hardening steel / higher carbon content					<1000			
SCr430	1.7033	34Cr4	alloyed construction steel / for quenching and tempering / for heat treatment				635	780	18		
SCr430[H]	1.7033	34Cr4	alloyed construction steel / for quenching and tempering / for heat treatment				700~740	880~1000	15		
SCr435[H]	1.7034	37Cr4	alloyed construction steel / for quenching and tempering / for heat treatment / for heat treatment		16 40	QT	650	880~1080			
SCr440	1.7035	41Cr4/42Cr4	alloyed construction steel / for quenching and tempering / for heat treatment				785	930	13		
SCr440[H]	1.7035	41Cr4/42Cr4	alloyed construction steel / for quenching and tempering / for heat treatment		16 40	QT	780	950~1150	11		
SCS13	1.4308	G-X6CrNi18-9	stainless steel casting								
SCS22	1.4401	G-X5CrNiMo17-12-2	stainless steel casting								
SGP	1.0035	S185 (St.33)	unalloyed construction steel / pipe steel				175~185	290			
SGPW	1.0035	S185 (St.33)	unalloyed construction steel / pipe steel / galvanized					290			
SK1	ISO	TC140	unalloyed tool steel for cold work								
SK2	ISO	TC120	unalloyed tool steel for cold work								
SK3	1.1545	C105W1	unalloyed tool steel for cold work							HRc	52~58
SK3	1.1645	C105W2	unalloyed tool steel for cold work								
SK4	ISO	TC90	unalloyed tool steel for cold work								
SK5	1.1525	C80W1	unalloyed tool steel for cold work								
SK5	1.1830	C85W	unalloyed tool steel for cold work								
SK6	1.1625	C80W2	unalloyed tool steel for cold work							HRc	52~58
SK7	1.1740	C60W	unalloyed tool steel for cold work					1000			
SKD1	1.2080	X210Cr12	unalloyed tool steel								
SKD11	1.2379	X155CrVMo12-1	unalloyed tool steel for cold work							HRc	>68
SKD12	1.2363	X100CrMoV5-1	unalloyed tool steel for cold work							HRc	>68
SKD4	1.2567	X30WCrV5-3	unalloyed tool steel for hot work								
SKD5	1.2581	X30WCrV9-3	unalloyed tool steel for hot work								
SKD6	1.2343	X38CrMoV5-1	unalloyed tool steel for cold work					1550			
SKD61	1.2344	X40CrMoV5-1	unalloyed tool steel for cold and hot work					1180~1770		HRc	>68
SKD7	1.2365	X32CrMoV3-3	unalloyed tool steel for hot work								
SKD8	(JIS)	untranslateable	unalloyed tool steel								
SKH10	1.3202	S12-1-4-5	alloyed high speed steel with Co								
SKH2	1.3355	S18-0-1	alloyed high speed steel without Co								
SKH51/SUH3	1.3343	S6-5-2	alloyed high speed steel without Co			hardened		≤1000		HRc	60~68
SKH52/SKH53	1.3344	S6-5-3	alloyed high speed steel without Co								
SKH55	1.3243	S6-5-2-5	alloyed high speed steel with Co								
SKH57	1.3207	S10-4-3-10	alloyed high speed steel with Co								
SKH59	1.3247	S2-10-1-8	alloyed high speed steel with Co								
SKS11	(JIS)	untranslateable	unalloyed tool steel for cold work								
SKS2/3/31	1.2419	105WCr6	unalloyed tool steel for cold work			hardened		<1000		HRc	58~64
SKS21	(JIS)	untranslateable	unalloyed tool steel for cold work								
SKS3	1.2510	100MnCrV4 (~-)	unalloyed tool steel for cold work								
SKS41	1.2541	35WCrV7	unalloyed tool steel for cold work								
SKS41	1.2542	45WCrV7	unalloyed tool steel for cold work								
SKS42	1.2552	80WCrV8	unalloyed tool steel for cold work								
SKS43	1.2833	100V1	unalloyed tool steel for cold work					<1000			

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JIS Material No.	EN Material No.	EN Denomination	Material Description	Ø min.	Ø max.	Condition	Re-Rp0.2 in MPa	Rm in MPa	A in %	Hardness Unit	Hardness Value
SKS44	(JIS)	untranslatable	unalloyed tool steel for cold work								
SKS5	(JIS)	untranslatable	unalloyed tool steel for cold work								
SKS7	(JIS)	untranslatable	unalloyed tool steel for cold work								
SKS8	1.2008	140Cr3 (~-)	unalloyed tool steel for cold work								
SKS93	(JIS)	untranslatable	unalloyed tool steel for cold work								
SKS94	(JIS)	untranslatable	unalloyed tool steel for cold work								
SKS95	(JIS)	untranslatable	unalloyed tool steel for cold work								
SKT3/SKT4	1.2713	55NiCrMoV6	unalloyed tool steel for cold and hot work					930-1420		HRc	55-60
SMF5040	(JIS)	C43 (~-)	sintered carbon mould steel								
SMn420[H]	1.1160	22Mn6	structural / heat treatment steel [increased Carbon content]								
SMn433[H]	1.1165	30Mn5	structural / nitriding steel / heat treatment steel [increased Carbon content]					<900			
SMn433[H]	1.1166	34Mn5	structural / nitriding steel / heat treatment steel [increased Carbon content]					750-950			
SMn438[H]	1.1167	36Mn5	structural / heat treatment steel [increased Carbon content]					800			
SMn443[H]	1.1175	41Mn4	structural / heat treatment steel [increased Carbon content]								
SMnC420[H]	1.1133	20Mn5	structural / heat treatment steel [increased Carbon content]					<800			
SMnC420[H]	1.7147	20MnCr5	structural / heat treatment steel [increased Carbon content]				685	1080-1370	8	HB	215
SMB16	1.7711	40CrMoV4-7	alloyed construction steel / for quenching and tempering / for heat treatment			QT	470-700	850-1000	14		
SMB21 [1-5]	1.7223	41CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment			QT	880	980-1180			
SMB22 [1-5]	1.7223	41CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment			QT	450-700	700-900			
SMB23 [1-5]	1.6562	40NiCrMo8-4	alloyed construction steel / for quenching and tempering / for heat treatment								
SNB7	1.7225	42CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment	16	40	QT	650-900	900-1200	11	HRc	38
SNB236	1.5710	36NiCr6	alloyed structural steel								
SNB415[H]	1.5732	14NiCr10	alloyed construction steel / case hardening steel / higher carbon content					575			
SNB631[H]	1.5736	36NiCr10	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content		40	QT	780	1030-1180			
SNB631[H]	1.5736	36NiCr10	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content	40	100	QT	690	880-1030			
SNB631[H]	1.5736	36NiCr10	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content	100	250	QT	590	740-880			
SNB815[H]	1.5752	14NiCr14	alloyed construction steel / case hardening steel / higher carbon content					930-1230			
SNB836	1.3565	48CrMo4	unalloyed bearing steel					1080			
SNB836	1.5755	31NiCr14	alloyed bearing steel		40	QT	840	980-1130	11		
SNB836	1.5755	31NiCr14	alloyed bearing steel	40	100	QT	740	880-1030	12		
SNB836	1.5755	31NiCr14	alloyed bearing steel	100	250	QT	590	790-930	14		
SNCM220[H]	1.6523	20NiCrMo2-2	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content				590	980-1270	10		
SNCM240	1.6546	40NiCrMo2-2	alloyed construction steel / for quenching and tempering / for heat treatment								
SNCM415	1.7262	16CrMo4	alloyed construction steel / for quenching and tempering / for heat treatment								
SNCM420[H]	1.6587	17CrNiMo8	alloyed construction steel / for quenching and tempering / for heat treatment / higher carbon content								
SNCM431	1.6580	30CrNiMo8	alloyed construction steel / for quenching and tempering / for heat treatment			QT	1050	1250-1450			
SNCM439	1.6582	34CrNiMo6	alloyed construction steel / for quenching and tempering / for heat treatment			QT	700-900	1000-1200	11		
SNCM447	1.6511	36CrNiMo4	alloyed construction steel / for quenching and tempering / for heat treatment			QT	800-1000	1100-1300	10		
SNCM447	1.6511	36CrNiMo4	alloyed construction steel / for quenching and tempering / for heat treatment			QT	≥1000	1200-1400	9	HB	355-410
SNCM616	1.6565	40NiCrMo6	alloyed construction steel / for quenching and tempering / for heat treatment								
SNCM625	(JIS)	untranslatable	alloyed construction steel / for quenching and tempering / for heat treatment								
SNCM630	(JIS)	untranslatable	alloyed construction steel / for quenching and tempering / for heat treatment			QT		1150	10	HRc	35
SNCM815	1.6657	14NiCrMo34	alloyed construction steel / for quenching and tempering / for heat treatment								
SPCC[SD]	1.0330	DC01 (St.12)	unalloyed steel / deep drawable / [solid drawn]				140-280	270-410	28-38	HB	90-120
SPHC	1.0320	St.22	unalloyed steel / deep drawable / [hot coiled]					270	27-31		
SS330	1.0028	S205G1T (JSt.34)	unalloyed mild steel				195	330-430	26		
SS400[D]	1.0040	Ust.42.2	unalloyed structural steel			unkilled		400-510			
SS400[D]	1.0042	RSt.42.2	unalloyed mild steel					400-510			
SS400[D]	1.0136	St.42.3	unalloyed mild steel					400-510			
SS490	1.0050	E295 (St.50.2)	unalloyed mild steel				265-295	470-610	20		
SS540	1.0060	E335 (St.60.2)	unalloyed mild steel					>540			
SSPR	(JIS)	untranslatable	structural steel								
SSPSR	(JIS)	untranslatable	structural steel								
STKM11A	1.0034	S205G2T (RSt.34)	unalloyed mild steel								
STKM12[A/C]	1.0038	S235JR2 (RSt.37.2)	unalloyed mild steel			killed	215	340-470		HB	120
STKM13A	1.0480	H240LA	unalloyed construction steel / pipe steel				240-310	340	27		
STPG370	1.0254	S235 (St.37)	unalloyed construction steel / pipe steel								
STP52	(JIS)	untranslatable	seamless pipe for hydraulic fluids				180	450	30		
STPT370	1.0255	St.37-4	unalloyed construction steel / pipe steel for high temperature			(<350°C)					
STPT370	1.0305	P235G1TH (St.35.8)	unalloyed construction steel / pipe steel for high temperature			(<350°C)					
SUH1	1.4718	X45CrSi9-3	alloyed valve steel / heat resistant			C					
SUH11	(JIS)	untranslatable	alloyed valve steel / heat resistant			M					
SUH3	1.4731	X40CrSiMo10-2	alloyed high speed steel without Co								
SUH309	1.4828	X15CrNiSi20-12	heatresistant steel			A	230-290	500-750	30-40	HB	130-220
SUH31	1.4873	X45CrNiW18-9	alloyed stainless steel / valve steel / heat resistant								
SUH310	1.4841	X15CrNiSi25-20	alloyed stainless steel / acid proof / heat resistant			A	230-300	550-750	30-40		
SUH310	1.4845	X12CrNi25-21	alloyed stainless steel / acid proof / heat resistant			A	230-300	550-750	30-40		
SUH35/SUH36	1.4871	X53CrMnNiN21-9	alloyed stainless steel / valve steel / highly heat resistant								
SUH37	(JIS)	untranslatable	alloyed stainless steel / acid proof / heat resistant								
SUH38	(JIS)	untranslatable	alloyed stainless steel / acid proof / heat resistant								
SUH4	1.4747	X80CrNiSi20	alloyed stainless steel / acid proof / heat resistant			C					
SUH409[L]	1.4512	X5CrTi12	alloyed stainless steel / acid proof / heat resistant			F					
SUH409[L]	1.4720	X6CrTi12	alloyed stainless steel / acid proof / heat resistant			F					
SUH446	1.4762	X10CrAlSi25	alloyed stainless steel / acid proof / heat resistant			F	280	520-720	10		
SUH600	(JIS)	untranslatable	alloyed construction steel / for quenching and tempering / for heat treatment / heat resistant			M					
SUH616	1.4935	X20CrMoWV12-1	alloyed stainless steel / valve steel / highly heat resistant			C					
SUH660	1.4943	X4NiCrTi25-15	alloyed stainless steel / valve steel / highly heat resistant / weldable without treatment			A					
SUH661	1.4971	X12CrCoNi21-20	alloyed stainless steel / valve steel / highly heat resistant			A					
SUJ1	(JIS)	untranslatable	unalloyed tool steel (~SUJ2 however 0.9-1.2%Cr)								
SUJ2	1.2067	102Cr6	unalloyed tool steel / ball bearing steel			annealed		675		HB	230
SUJ2	1.3505	100Cr6	unalloyed tool steel / ball bearing steel			annealed		675		HB	230
SUJ2	1.3505	100Cr6	unalloyed tool steel / ball bearing steel			hardened		≤850		HRC	58-65
SUJ3	(JIS)	untranslatable	unalloyed tool steel (~SUJ2 however 0.4-0.7%Si)								

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Metal Table JIS - EN 4

JIS Material No.	EN Material No.	EN Denomination	Material Description	Ø min.	Ø max.	Condition	Re-Rp0.2 in MPa	Rm in MPa	A in %	Hardness Unit	Hardness Value
SUJ4	(JIS)	untranslatabeable	unalloyed tool steel								
SUJ5	(JIS)	untranslatabeable	unalloyed tool steel								
SUM11	1.0702	U10S10	unalloyed steel / free cutting steel								
SUM12	(JIS)	untranslatabeable	unalloyed steel / free cutting steel								
SUM21	1.0711	9S20	unalloyed steel / free cutting steel					370-450		HB	100-130
SUM22[L]	1.0715	9SMn28	unalloyed steel / free cutting steel							HB	110-170
SUM24L	1.0718	9SMnPb28	unalloyed steel / free cutting steel					390-580		HRc	35-41
SUM25	1.0736	9SMn36	unalloyed steel / free cutting steel					<500			
SUM31[L]	1.0710	15S10	unalloyed steel / free cutting steel					400-560			
SUM32	1.0723	15S20	unalloyed steel / free cutting steel								
SUM41	(JIS)	untranslatabeable	unalloyed steel / free cutting steel								
SUM42	(JIS)	untranslatabeable	unalloyed steel / free cutting steel								
SUM43	ISO	44SMn28	unalloyed free cutting steel / for case hardening				420	630-850	16		
SUP10	1.8159	50CrV4/51CrV 4	alloyed construction steel / for quenching and tempering / for heat treatment				1180	1350-1600			
SUP11A	1.7138	52MnCrB3	alloyed construction steel / for quenching and tempering / for heat treatment								
SUP12	1.7102	54SiCr6	alloyed construction steel / for quenching and tempering / for heat treatment / hot rolled spring steel				1130	1320-1570	6		
SUP13	ISO	60CrMo33	alloyed construction steel / for quenching and tempering / for heat treatment						35		
SUP3	1.1262	C82D2	alloyed construction steel / for quenching and tempering / for heat treatment								
SUP6	(JIS)	untranslatabeable	alloyed steel for special purpose								
SUP7	1.5026	56Si7	alloyed construction steel / valve steel / warm drawn spring steel						45		
SUP7	1.7108	60SiCr7	alloyed construction steel / valve steel / warm drawn spring steel				1130	1320-1570	6		
SUP9A	1.7176	55Cr3 (~-)	alloyed construction steel / for quenching and tempering / for heat treatment								
SUS202	1.4371	X2CrMnNiN17-7-5	alloyed stainless steel						40		
SUS301	1.4319	X3CrNiN17-8	alloyed steel / stainless and acidproof steel / for cold extrusion			A		500-750			
SUS301J1-CSP	1.4310	X10CrNi18-8	alloyed steel / stainless and acidproof steel / for cold extrusion			A	195	500-750			
SUS301-WPA	1.6901	X12CrNi18-10	alloyed stainless steel / acid proof / spring steel			A (>290°C)					
SUS301-WPB	1.6902	X12CrNi18-11	alloyed stainless steel / acid proof / spring steel			A (>290°C)					
SUS302	1.6900	X12CrNi18-9	alloyed stainless steel / acid proof			A					
SUS303	1.4305	X10CrNiS18-9	alloyed stainless steel / acid proof			A1		520	40	HRc	>68
SUS303	1.4305	X8CrNi18-9	alloyed stainless steel / acid proof			A1	190	500-750	35		
SUS304	1.4301	X5CrNi18-10	alloyed stainless steel / acid proof			A2	190	540-750	45		
SUS304-CSP	1.4301	X5CrNi18-10	alloyed stainless steel / acid proof / spring steel / cold coild								
SUS304-D	1.4301	X5CrNi18-10	alloyed stainless steel / acid proof								
SUS304-H	1.4301	X5CrNi18-10	alloyed stainless steel / acid proof								
SUS304L	1.4306	X2CrNi19-11	alloyed stainless steel / acid proof			A2		520-670	40-45		
SUS304LN	1.4311	X2CrNiN18-10	alloyed stainless steel / acid proof			A	270	550-760			
SUS304-TP	1.4301	X5CrNi18-10	alloyed stainless steel / acid proof								
SUS304-WPB	1.4301	X5CrNi18-10	alloyed stainless steel / acid proof								
SUS304-WPC	1.4301	X5CrNi18-10	alloyed stainless steel / acid proof / spring steel			(>180 °C)		700			
SUS305[J1]	1.4303	X4CrNi18-12	alloyed stainless steel / acid proof			A2		500/650	45		
SUS309S	1.4833	X12CrNi23-13	alloyed stainless steel / acid proof / heat resistant			A					
SUS309S	1.4833	X7CrNi23-14	alloyed stainless steel / acid proof / heat resistant								
SUS316	1.4401	X5CrNiMo17-12-2	alloyed stainless steel / acid proof				220	520-700	40	HB	130-180
SUS316	1.4436	X3CrNiMo17-13-3	alloyed stainless steel / acid proof			A4		550-700	40		
SUS316	1.4438	X2CrNiMo18-15-4	alloyed stainless steel / acid proof			A4		550-700	40		
SUS316L	1.4404	X2CrNiMo17-12-2	alloyed stainless steel / acid proof			A4		530-680	40		
SUS316L	1.4435	X2CrNiMo18-14-3	alloyed stainless steel / acid proof			A4		500-700	40	HV	120
SUS316LN	1.4406	X2CrNiMoN17-12-2	alloyed stainless steel / acid proof			A4					
SUS316LN	1.4429	X2CrNiMoN17-13-3	alloyed stainless steel / acid proof			A4	220	500-700	40	HB	130-170
SUS316-TP	1.4301	X5CrNi18-10	alloyed stainless steel / acid proof								
SUS316-WPA	1.4401	X5CrNiMo17-12-2	alloyed stainless steel / acid proof / spring steel			A (>290°C)					
SUS316-WPB	1.4401	X5CrNiMo17-12-2	alloyed stainless steel / acid proof / spring steel			A (>290°C)					
SUS317	1.4449	X3CrNiMo18-12-3	alloyed stainless steel			A					
SUS317L	1.4438	X2CrNiMo18-16-4	alloyed stainless steel / acid proof					550-700			
SUS321	1.4541	X6CrNiTi18-10	alloyed stainless steel / weldable without treatment / tough to subzero temperature			A2	200	520-720	40	HB	130-190
SUS321	1.4878	X8CrNiTi18-10	alloyed stainless steel / acid proof			A	190	500-720	40		
SUS329J1	1.4460	X8CrNiMo27-5	alloyed stainless steel / acid proof			AF					
SUS347	1.4550	X6CrNiNb18-10	alloyed stainless steel / acid proof			A2		520-720	40	HB	130-190
SUS347	1.4550	X10CrNiNb18-9	alloyed stainless steel / acid proof					520-750			
SUS384	ISO	X3NiCr18-16	alloyed stainless steel / acid proof								
SUS403	1.4000	X6Cr13	alloyed stainless steel / acid proof			F		600			
SUS405	1.4002	X6CrAl13	alloyed stainless steel / acid proof / heat resistant			F			10		
SUS405	1.4724	X10CrAl11-3	alloyed stainless steel / acid proof / heat resistant			F					
SUS410	1.4006	X10Cr13	alloyed steel / stainless and acidproof / for cold extrusion			C1		730	20		
SUS410	1.4006	X10Cr13	alloyed steel / stainless and acidproof steel / for cold extrusion			QT		1200	7	HRc	37
SUS410	1.4006	X10Cr13	alloyed steel / stainless and acidproof steel / for cold extrusion					380	45		
SUS410J1	1.4024	X15Cr13	alloyed steel / stainless and acidproof steel / for cold extrusion								
SUS416	1.4005	X12CrS13	alloyed stainless steel / acid proof			M		540	25		
SUS420	1.4029	X29CrS13	alloyed stainless steel / acid proof								
SUS420F	1.4029	X29CrS13	alloyed stainless steel / acid proof			M					
SUS420J	1.4021	X20Cr13	alloyed stainless steel / acid proof			C1		800-1000	8-12	HRc	40
SUS420J2	1.2083	X42Cr13	alloyed stainless steel / acid proof			C1		850-1000	10	HRc	>68
SUS420J2	1.4031	X38Cr13	alloyed stainless steel / acid proof			C1		800			
SUS420J2	1.4034	X46Cr13	alloyed stainless steel / acid proof			C1			11		
SUS429	1.4001	X7Cr14	alloyed stainless steel / acid proof			F		530-680			
SUS430	1.4016	X6(B)Cr17	alloyed stainless steel / acid proof / heat resistant			F1	240	450-630	12-20	HB	130-170
SUS430	1.4742	X10CrAl(Si)18	alloyed stainless steel / acid proof / heat resistant				270	500-700	15		
SUS430F	1.4104	X12CrMoS17-2	alloyed stainless steel / acid proof / heat resistant			F		840			
SUS430LX	1.4510	X6CrTi17	alloyed stainless steel / acid proof / heat resistant								
SUS430LX	1.4511	X8CrNb17	alloyed stainless steel / acid proof / heat resistant								
SUS431	1.4057	X17CrNi16-2	alloyed stainless steel / acid proof			C3		800-950	12-14		
SUS431	1.4057	X17CrNi16-2	alloyed stainless steel / acid proof				280	980		HB	280
SUS434	1.4113	X6CrMo17-1	alloyed steel / stainless and acidproof steel / for cold extrusion			F1		450-630	18		

JIS denomination is binding for orders. EN denominations are started as comparative material. (Partly there is no existing equivalent EN material for JIS material existing or contrary).
All information is based on values and properties which are achieved typically and are only for assessment of materials typical values. Properties herein shall not be located directly to a product and there is no supposition that any product achieves these values. For proof values own checks are necessary or you may request the direct related value from Misumi.

