

Style	中国China	美国USA	日本Japan	英国UK	前苏联Soviet	法国France	德国Germany
	GB	ASTM	JIS	BS	ГОСТ	NF	DIN
Carbon Structural Steel	08F	1006	S09CK	040A04	08КП		C10
	08	1008	S9CK	045M10	08		C10
	10F	1010		040A10		XC10	
	10	1010,1012	S10C	045M10	10	XC10	C10,CK10
	15	1015	S15C	095M15	15	XC12	C15,CK15
	20	1020	S20C	050A20	20	XC18	C22,CK22
	25	1025	S25C		25		CK25
	30	1030	S30C	060A30	30	XC32	
	35	1035	S35C	060A35	35	XC38TS	C35,CK35
	40	1040	S40C	080A40	40	XC38H1	
	45	1045	S45C	080M46	45	XC45	C45,CK45
	50	1050	S50C	060A52	50	XC48TS	CK53
	55	1055	S55C	070M55	55	XC55	
	60	1060	S58C	080A62	60	XC55	C60,CK60
	15Mn	1016,1115	SB46	080A17	15Г	XC12	14Mn4
	20Mn	1021,1022		080A20	20Г	XC18	
	30Mn	1030,1033	S30C	080A32	30Г	XC32	
	40Mn	1036,1040	S40C	080A40	40Г	40M5	40Mn4
	45Mn	1043,1045	S45C	080A47	45Г		
	50Mn	1050,1052	S53C	030A52	50Г	XC48	
				080M50			
	GB	ASTM	JIS	BS	ГОСТ	NF	DIN
	20Mn2	1320,1321	SMn420	150M19	20Г2		20Mn5
	30Mn2	1330	SMn433H	150M28	30Г2	32M5	30Mn5
	35Mn2	1335	SMn438(H)	150M36	35Г2	35M5	36Mn5
	40Mn2	1340	SMn443		40Г2	40M5	
	45Mn2	1345	SMn443		45Г2		46Mn7
	50Mn2				50Г2	~55M5	
	20MnV						20MnV6
	35SiMn			En46	35CГ		37MnSi5
	42SiMn			En46	35CГ		46MnSi4
	40B	TS14B35					
	45B	50B46H					
	40MnB	50B40					
	45MnB	50B44					
	15Cr	5115	SCr415(H)	523M15	15X	12C3	15Cr3
	20Cr	5120	SCr420H	527A19	20X	18C3	20Cr4
	30Cr	5130	SCr430	530A30	30X		28Cr4
	35Cr	5132	SCr430(H)	530A36	35X	32C4	34Cr4
	40Cr	5140	SCr440	520M40	40X	42C4	41Cr4

Alloy Structural Steel		45Cr	5145,5147	SCr445	534A99	45X	45C4	
		38CrSi				38XC		
		12CrMo			620C <sub>R</sub> B	12XM	12CD4	13CrMo44
		15CrMo	A-387Cr · B	STC42	1653	15XM	12CD4	16CrMo44
				STT42				
				STB42				
		20CrMo	4119,4118	SCT42	CDS12	20XM	18CD4	20CrMo44
				STT42	CDS110			
				STB42				
		25CrMo	4125		En20A		25CD4	25CrMo4
		30CrMo	4130	SCM420	1717COS110	30XM	30CD4	
		42CrMo	4140		708A42		42CD4	42CrMo4
					708M40			
		35CrMo	4135	SCM3	708A37	35XM	35CD4	34CrMo4
		12CrMoV				12XMΦ		
		12Cr1MoV				12X1MΦ		13CrMoV42
		25Cr2Mo1VA				25X2M1ΦA		
		20CrV	6120			20XΦ		22CrV4
		40CrV	6140			40XΦA		42CrV6
		50CrVA	6150	SUP10	735A30	50XΦA	50CV4	50CrV4
		15CrMn				15XΓ,18XΓ		
		20CrMn	5152	SUP9	527A60	20XΓCA		
		30CrMnSiA				30XΓCA		
		40CrNi	3140H	SNC236	640M40	40XH		40NiCr6
		20CrNi3A	3316			20XH3A	20NC11	20NiCr14
		30CrNi3A	3325	SNC631H	653M31	30XH3A		28NiCr10
			3330	SNC631				
		20MnMoB	80B20					
		38CrMoAlA		SACM645	905M39	38XMIOA	40CAD6.12	41CrAlMo07
		40CrNiMoA	4340	SNCM439	871M40	40XHMA		40NiCrMo22
		GB	ASTM	JIS	BS	ГОСТ	NF	DIN
		60	1060	S58C	080A62	60	XC55	C60
		85	C1085	SUP3	080A86	85		
			1084					
		65Mn	1566			65Γ		
		55Si2Mn	9255	SUP6	250A53	55C2Γ	55S6	55Si7
		60Si2MnA	9260	SUP7	250A61	60C2ΓA	61S7	65Si7
			9260H					
		50CrVA	6150	SUP10	735A50	50XΦA	50CV4	50CrV4
		GB	ASTM	JIS	BS	ГОСТ	NF	DIN
		GCr9	E51100	SUJ1		ШХ9	100C5	105Cr4
			51100					
		GCr9SiMn		SUJ3				
		GCr15	E52100	SUJ2	534A99	ШХ15	100C6	100Cr6
			52100					
		GCr15SiMn				ШХ15CΓ		100CrMn6

	金	GB	ASTM	JIS	BS	ГОСТ	NF	DIN
		Y12	C1109	SUM12		A12		
		Y15	B1113	SUM22	220M07			10S20
		Y20	C1120	SUM32		A20	20F2	22S20
		Y30	C1130	SUM42		A30		35S20
Y40Mn		C1144		225M36	A40Г	45MF2	40S20	
Abrasion-Resistant Steel		GB	ASTM	JIS	BS	ГОСТ	NF	DIN
		ZGMn13		SCMnH11		116Г13Ю	Z120M12	X120Mn12
Carbon Tool Steel		GB	ASTM	JIS	BS	ГОСТ	NF	DIN
		T7	W1-7	SK7,SK6		y7		C70W1
		T8		SK6,SK5		y8		
		T8A	W1-0.8C			y8A	1104Y <sub>1</sub> 75	C80W1
		T8Mn		SK5		y8Г		
		T10	W1-1.0C	SK3	D1	y10		
		T12	W1-1.2C	SK2	D1	y12	Y2 120	C125W
		T12A	W1-1.2C			y12A	XC 120	C125W2
		T13		SK1		y13	Y2 140	C135W
Alloy Tool Steel		GB	ASTM	JIS	BS	ГОСТ	NF	DIN
		8MnSi						C75W3
		9SiCr			BH21	9XC		90CrSi5
	Cr2	L3			X		100Cr6	
	Cr06	W5	SKS8		13X		140Cr3	
	9Cr2	L			9X		100Cr6	
	W	F1	SK21	BF1	B1		120W4	
	Cr12	D3	SKD1	BD3	X12	Z200C12	X210Cr12	
	Cr12MoV	D2	SKD11	BD2	X12M	Z200C12	X165CrMoV46	
	9Mn2V	02			9Г2Ф	80M80	90MnV8	
	9CrWMn	01	SKS3		9XBГ	80M8		
	CrWMn	07	SKS31		XBГ	105WC13	105WCr6	
	3Cr2W8V	H21	SKD5	BH21	3X2B8Φ	X30WC9V	X30WCrV93	
	5CrMnMo		SKT5		5XГМ		40CrMnMo7	
	5CrNiMo	L6	SKT4		5XHM	55NCDV7	55NiCrMoV6	
	4Cr5MoSiV	H11	SKD61	BH11	4X5MΦC	Z38CDV5	X38CrMoV51	
	4CrW2Si		SKS41		4XB2C	40WCDS35-12	35WCrV7	
	5CrW2Si	S1		BSi	5XB2C		45WCrV7	
	High Speed Tool Steel	GB	ASTM	JIS	BS	ГОСТ	NF	DIN
W18Cr4V		T1	SKH2	BT1	P18	Z80WCV 18-04-01	S18-0-1	
W6Mo5Cr4V2		N2	SKH9	BM2	P6M3	Z85WDCV 06-05-04-02	S6-5-2	
W18Cr4VCo5		T4	SKH3	BT4	P18K5Φ2	Z80WKCV 18-05-04-01	S18-1-2-5	
W2Mo9Cr4VCo8		M42		BM42		Z110DKCWV 09-08-04-02-01	S2-10-1-8	
	GB	ASTM	JIS	BS	ГОСТ	NF	DIN	

Stainless Steel	1Cr18Ni9	302 S30200	SUS302	302S25	12X18H9	Z10CN18.09	X12CrNi188
	Y1Cr18Ni9	303 S30300	SUS303	303S21		Z10CNF18.09	X12CrNiS188
	0Cr19Ni9	304 S30400	SUS304	304S15	08X18H10	Z6CN18.09	X5CrNi189
	00Cr19Ni11	304L S30403	SUS304L	304S12	03X18H11	Z2CN18.09	X2CrNi189
	0Cr18Ni11Ti	321 S32100	SUS321	321S12 321S20	08X18H10T	Z6CNT18.10	X10CrNiTi189
	0Cr13Al	405 S40500	SUS405	405S17		Z6CA13	X7CrAl13
	1Cr17	430 S43000	SUS430	430S15	12X17	Z8C17	X8Cr17
	1Cr13	410 S41000	SUS410	410S21	12X13	Z12C13	X10Cr13
	2Cr13	420 S42000	SUS420J1	420S37	20X13	Z20C13	X20Cr13
	3Cr13		SUS420J2	420S45	30X13		
	7Cr17	440A S44002	SUS440A				
	0Cr17Ni7Al	631 S17700	SUS631		09X17H7IO	Z8CNA17.7	X7CrNiAl177
Heat-Resistant Steel	GB	ASTM	JIS	BS	ГОСТ	NF	DIN
	2Cr23Ni13	309 S30900	SUH309	309S24	20X23H12	Z15CN24.13	
	2Cr25Ni21	310 S31000	SUH310	310S24	20X25H20C2	Z12CN25.20	CrNi2520
	0Cr25Ni20	310S S31008	SUS310S				
	0Cr17Ni12Mo2	316 S31600	SUS316	316S16	08X17H13M2T	Z6CND17.12	X5CrNiMo1810
	0Cr18Ni11Nb	347 S34700	SUS347	347S17	08X18H12E	Z6CNNb18.10	X10CrNiNb189
	1Cr13Mo		SUS410J1				
	1Cr17Ni2	431 S43100	SUS431	431S29	14X17H2	Z15CN16-02	X22CrNi17
	0Cr17Ni7Al	631 S17700	SUS631		09X17H7IO	Z8CNA17.7	X7CrNiAl177

## Comparison Table of Commonly Used Domestic and Foreign Grade Aluminum and Aluminum Alloys

Style	中国China	美国USA	日本Japan	英国UK	前苏联Soviet	法国France	德国Germany
	GB	ASTM	JIS	BS	ГОСТ	NF	DIN
Commercially Pure Aluminum	1A99	1199			A99		A199.99R
	1A97				A97		A199.98R
	1A95				A95		
	1A80		1080	1080(1A)	A8	1080A	A199.90
	1A50	1050	1050	1050(1B)	A5	1050A	A199.50
	GB	ASTM	JIS	BS	ГОСТ	NF	DIN
Rustproof Aluminum Alloy	5A02	5052	5052	NS4	Amg	5052	A1Mg2.5
	5A03			NS5	AMg3		
	5A05	5056	5056	NB6	AMg5V		A1Mg5
	5A30	5456	5556	NG61		5957	
Duralumin	GB	ASTM	JIS	BS	ГОСТ	NF	DIN
	2A01	2036	2117		D18	2117	AlCu2.5Mg0.5
	2A11		2017	HF15	D1	2017S	AlCuMg1
	2A12	2124	2024		D16AVTV	2024	AlCuMg2
	2B16	2319					
Forging Aluminum	GB	ASTM	JIS	BS	ГОСТ	NF	DIN
	2A80		2N01		AK4		
	2A90	2218	2018		AK2		
	2A14	2014	2014		AK8	2014	AlCuSiMn
Ultralumin	GB	ASTM	JIS	BS	ГОСТ	NF	DIN
	7A09	7175	7075		V95P	7075	AlZnMgCu1.5
Aluminum Casting Alloy	GB	ASTM	JIS	BS	ГОСТ	NF	DIN
	ZAISi7Mn	356.2	AC4C	LM25			G-AlSi7Mg
	ZAISi12	413.2	AC3A	LM6	AL2	A-S12-Y4	G-Al12
	ZAISi5Cu1Mg	355.2			AL5		
	ZAISi2Cu2Mg1	413.0	AC8A				G-Al12(Cu)
	ZAlCu5Mn				AL19		
	ZAlCu5MnCdVA	201.0					
	ZAlMg10	520.2		LM10	AL8	AG11	G-AlMg10
	ZAlMg5Si				AL13		G-AlMg5Si