

## Comparison Table of Commonly Used Steel Grades

### High quality carbon structural steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
	GB	ASTM	JIS	DIN/DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
High quality carbon structural steel	08F	1008 1010	SPHD; SPHE	--	--
	10	1010	S10C; S12C	CK10	C101
	15	1015	S15C; S17C	CK15; Fe360B	C15E4
	20	1020	S20C; S22C	C22	--
	25	1025	S25C; S28C	C25	C25E4
	40	1040	S40C; S43C	C40	C40E4
	45	1045	S45C; S48C	C45	C45E4
	50	1050	S50C S53C	C50	C50E4
	15Mn	1019	--	--	--

### Ordinary carbon structural steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
	GB	ASTM	JIS	DIN、DINEN	ISO 630
	Brand	Brand	Brand	Brand	
Ordinary carbon structural steel	Q195	Cr.B	SS330; SPHC; SPHD	S185	
	Q215A	Cr.C; Cr.58	SS330; SPHC		
	Q235A	Cr.D	SS400; SM400A		E235B

	Q235B	Cr.D	SS400; SM400A	S235JR; S235JRG1; S235JRG2	E235B
	Q255A		SS400; SM400A		
	Q275		SS490		E275A

### Carbon Tool Steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
	GB	AST	JIS	DIN/DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
Carbon Tool Steel	T7(A)	--	SK7	C70W2	TC70
	T8(A)	T72301; W1A-8	SK5; SK6	C80W1	TC80
	T8Mn(A)	--	SK5	C85W	--
	T10(A)	T72301; W1A-91/2	SK3; SK4	C105W1	TC105
	T11(A)	T72301; W1A-101/2	SK3	C105W1	TC105
	T12(A)	T72301; W1A-111/2	SK2	--	TC120

### Alloy Tool Steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
	GB	ASTM	JIS	DIN/DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
Alloy Tool Steel	Cr12	T30403(UNS) (D3)	SKD1	X210Cr12	210Cr12
	Cr12MoV	T30402(UNS) (D2)	SKD11	X155CrVMo121	160CrMoV12
	5CrNiMo	--	--	--	--
	5CrNiMo	T61206(UNS) (L6)	SKT4	55NiCrMoV6	--
	3Cr2W8V	T20821	SKD5	--	30WCrV9

### Low Alloy High Strength Structural Steel

Product Name	China	U.S.A	Japan	Germany	International Organization for
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					Standardization
	GB	ASTM	JIS	DIN/DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
	Q355B	Gr.E	—	S355N	E355 DD
	Q355C	--	—	WstE355	E355DD
	Q355D	Type7	—	TstE355	E355DD
	Q390A	Gr.E	STKT540	StE380	HS390D
	Q390B	Gr.E	—	StE380	HS390D
	Q390C	Gr.E	—	WtE380	HS390D
	Q390D	Gr.E	—	TstE380	HS390D
	Q390E	Gr.E	—	EstE390	HS390D
	Q420A	60	SEV295	StE420	E460CC
	Q420B	60	SEV345	StE420	E460CC
	Q420C	60	—	WstE420	E460DD
	Q420D	60	—	WstE420	E460DD
	Q420E	60	—	EstE420	E460E
	Q460C	65	SM570	S460N	E460CC
	Q460D	65	SMA570W	S460NL	E460DD
	Q460E	65	SWA570P	P460NL	E460E

### High speed tool steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
	GB	ASTM	JIS	DIN/DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
High speed tool steel	W18Cr4V	T12001(UNS) (T1)	SKH2	--	HS18-0-1 (S7)
	W18Cr4VCo5	T12004(UNS) (T4)	SKH3	S18-1-2-5	HS18-1-1-5 (S7)
	W6Mo5Cr4V2	T11302(UNS) (M2)	SKH51	S6-5-2	HS6-5-2 (S4)

### Stainless steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
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	GB	ASTM	JIS	DIN、DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
Stainless steel	1Cr18Ni9Ti	S32100(UNS) (321)	SUS321	X6CrNiTi18-10	X6CrNiTi1810
	2Cr13	S42000(UNS) (420)	SUS420J1	X20Cr13	4
	40Mn	1043	SWRH42B	C40	SL; SM
	45Mn	1046	SWRH47B	C45	SL; SM
	65Mn	1065	--	--	SL; SM; TypeSC; TypDC

### Free Cutting Structural Steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
	GB	ASTM	JIS	DIN/DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
Free Cutting Structural Steel	Y12	1211; G12110(UNS)	SUM12; SUM21	10S20	10S20
	Y12Pb	12L13	SUM22L	10SPb20	10SPb20; 11SMnPb28
	Y20	1117; G11170(UNS)	SUM32	C22	--
	Y40Mn	1144; G11440(UNS)	SUM43	--	44Mn28
	Y45Ca	1145	--	C45	--
	Y1Cr18Ni9	--	SUS303	X8CrNiS18-9	17

### Low alloy structural steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
	GB	ASTM	JIS	DIN/DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
Low alloy structural	Q420C	Gr.B; Type7	SEV295; SEV345	S420NL; S420ML	HS420D; E420DD

steel	Q460D	Gr.65	SM570; SMA570W; SMA570P	S460NL; S460ML	E460DD; F460E
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### Alloy Structural Steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
	GB	ASTM	JIS	DIN/DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
Alloy Structural Steel	20Mn2	1524	SMn420	P355GH	22Mn6
	15Cr	5115	SCr415	17Cr3	--
	20Cr	5120	SCr420	20Cr4	20Cr4
	30Cr	5130	SCr430	34Cr4	34Cr4
	40Cr	5140	SCr440	41Cr4	41Cr4
	45Cr	5145	SCr445	41Cr4	41Cr4
	30CrMo	4130	SCM430	25CrMo4	25CrMo4
	35CrMo	4317	SCM435	34CrMo4	34CrMo4
	42CrMo	4140	SCM440	42CrMo4	42CrMo4
	38CrMoA1	--	SCM645	41CrA1Mo7	41CrA1Mo7
	50CrVA	6150	SCP10	51CrV4	51CrV4
	40CrMnMo	4140; 4142	SCM440	42CrMo4	42CrMo4

### Spring steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
	GB	ASTM	JIS	DIN/DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
Spring steel	85	1084	SUP3	CK85	Type DC
	55Si2Mn	9260; H92600	SUP6; SUP7	55Si7	56SiCr7
	60Si2Mn	H92600	SUP6; SUP7	60SiCr7	61SiCr7
	55CrMA	H51550; G51550	SUP9	55Cr3	55Cr3
	60Si2CrVA	--	--	--	--
	50CrVA	H51500; G61500	SUP10	50CrV4	51CrV4

### Bearing Steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
	GB	ASTM	JIS	DIN/DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
Bearing Steel	GCr9	51100	SUJ1	--	--
	GCr15	52100	SUJ2	100Gr6	1
	9Cr18Mo	440C	SUS440C	--	21

### Electric steel

Product Name	China	U.S.A	Japan	Germany	International Organization for Standardization
	GB	ASTM	JIS	DIN、DINEN	ISO 630
	Brand	Brand	Brand	Brand	--
Electric steel	35W250	36F320M	35A250	M250-35A	--
	27QG110	27P146M	27P110	M103-27P	--

