

EUROPE EN	ITALY UNI	CHINA GB	GERMANY DIN	FRANCE AFNOR	U.K B.S.	RUSSIA GOST	USA AISI SAE
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Non-alloy structural steels

S235JR	Fe 360 BFN	Q235B	RSt 37-2 1.0038	--	40 B	St3sp	--
S235J2	Fe 360 D	Q235A	St 37-3 U 1.0116	E 24-4	40 D	St3ps	A 414 g A
S275JR	Fe 430 B	Q255A	St 44-2 1.0044	E 28-2	43 B	St4ps	A 283 g D
S275J0	Fe 430 C	--	St 44-3 U 1.0143	E 28-3	43 C	--	--
S355J0	Fe 510 C	--	St 52-3 U 1.0553	E 36-3	50 C	St4sp	A 441
S355J2	Fe 510 D	--	St 52-3 N 1.0553	--	50 D	17G1S	A 350 LF2
E295	Fe 490	Q275	St 50-2 1.0050	A 50-2	--	St5ps	--
E335	Fe 590	HRB335	St 60-2 1.0060	A 60-2	--	St6ps	--

Free-cutting steels

10SPb20	CF10SPb20	Y12Pb	10SPb20 1.0722	10PbF2	--	AS14	11L08
11SMn30	CF9SMn28	--	9SMn28 1.0715	S250	230M07	--	1215
11SMnPb30	CF9SMnPb28	Y15Pb	9SMnPb28 1.0718	S250Pb	--	(AS14)	12L15
11SMn37	CF9SMn36	--	9SMn36 1.0736	S300	--	--	1214
11SMnPb37	CF9SMnPb36	--	9SMnPb36 1.0737	S300Pb	--	--	12L14
35SPb20	35SPb20	--	35SPb20 1.0756	35SPb20	35SPb20	--	---
36SMn14	35SMn10	--	36SMn14 1.0764	36SMn14	--	--	--
36SMnPb14	35SMnPb10	--	36SMnPb14 1.0765	35MF6Pb	--	(AS35G2)	--
46S20	46S20	--	45S20 1.0727	45Mf4	46S20	--	(1146)
46SPb20	46SPb20	--	45SPb20 1.0757	46SPb20	46SPb20	(AS45G2)	11L46

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Case-hardening steels

C10E	C10	10	Ck10 1.1121	XC10	045M10	10	1010
C15E	C15	15	Ck15 1.1141	XC12	080M15	15	1015
C16E	C15	15AL	C16E 1.1148	XC18	080M15	--	1016
C16E	C20	20	Ck22 1.1151	XC18	070M20	20	1023
16MnCr5	16MnCr5	15CrMn	16MnCr5 1.7131	16MC5	590M17	18ChG	5115
20MnCr5	20MnCr5	20CrMn	20MnCr5 1.7147	20MC5	--	20Ch	5120
17NiCrMo6-4	--	--	17NiCrMo6-4 1.6566	--	--	--	--

17NiCrMo6-4	18NiCrMo5	--	--	18NCD6	815M17	--	(4317)
20NiCrMo2-2	20NiCrMo2	20CrNiMo	21NiCrMo2 1.6523	20NCD2	805M20	20ChGNM	8620
16NiCr4 --	16CrNi4 16NiCr4Pb	--	15CrNi6 1.5919	16NC4	637M17	12ChN2	4320
16NiCr12	16NiCr11	12CrNi3	14NiCr10 1.5732	16NC11	--	--	3415
14NiCrMo13-4	16NiCrMo12	--	16NiCrMo12-6 1.6782	16NCD13	--	--	--

Nitriding steels

34CrAlNi7-10	34CrAlNi7-10	--	34CrAlNi7 1.8550	--	--	--	K52440
41CrAlMo7-10	41CrAlMo7	38CrMoAl	41CrAlMo7 1.8509	40CAD6.12	905M39	38Ch2MJuA	K240065

Carbon steels

--	--	--	C21 1.0432	--	--	--	A 105
S355J2	Fe 510D	16Mn	St52.3N 1.0553	--	50D	20G	A 350 LF2

Steels for creep strength

P235GH	Fe360 1 KW	--	P235GH 1.0345	A37CP	141-360	--	A285 g A
42CrMo4	42CrMo4	42CrMo	42CrMo4 1.7225	42CD4	708M40	40ChML	A193-B7
40CrMoV4-6	40CrMoV4-6	--	40CrMoV4-6 1.7711	--	670-860	--	A193 B16
10CrMo9-10	12CrMo9 10 KG	12Cr2MoG	10CrMo9-10 1.7380	12CD9-10	622/B3	10Ch2M	A182 F22

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Carbon steels for quenching and tempering

C22E C22R	C20	20	Ck22 Cm22 1.1151 1.1149	XC18	070M20	20	1020
C30E C30R	C30	30	Ck30 Cm30 1.1178 1.1179	XC32	080M30	30	1030
C35E C35R	C35	35	Ck35 Cm35 1.1181 1.1181	XC38H1	080M36	35	1034
C35E C35R	C35	--	Ck35 Cm35 1.1181 1.1180	XC38H1	080M36	38	1035
C40E C40R	C40	40	Ck40 Cm40 1.1186 1.1189	XC42H1	080M40	40	1040
C45E C45R	C45	45	Ck45 Cm45 1.1191 1.1201	XC48H1	080M46	45	1045
C50E C50R	C50	50	Ck50 Cm50 1.1206 1.1241	--	080M50	50	1050
C55E	C55	55	CK55 1.1203	XC55 H1	070M55	--	1055
C60E C60R	C60	60	Ck60 Cm60 1.1221 1.1223	--	070M60	60	1060

Quenched and tempered steels

41Cr4	41Cr4	40Cr	41Cr4 1.7035	42C4	530M40	41Ch	5140
34CrMo4	34CrMo4	30CrMo	34CrMo4 1.7220	34CD4	--	35ChM	4135

42CrMo4	42CrMo4	42CrMo	42CrMo4 1.7225	42CD4	708M40	38ChM	4140
39NiCrMo3 --	39NiCrMo3 39NiCrMo3Pb	--	36CrNiMo4 1.6511	40NCD3	816M40	40ChN2MA	9840
34CrNiMo6	35NiCrMo6	--	34CrNiMo6 1.6582	35NCD6	817M40	38Ch2N2MA	9840
40NiCrMo7	40NiCrMo7	--	40NiCrMo8 1.6562	--	--	30ChNML	E4340
--	30CrNiMo8	--	30CrNiMo8 1.6580	30CND8	823M30	30ChN2MA	(320L43)
36NiCrMo16	34NiCrMo16	--	36NiCrMo16 1.6773	35NCD16	85M30	--	--
50CrMo4	50CrMo4	ZG50CrMo	50CrMo4 1.7228	--	--	50Ch	4150

Flame and induction hardening steels

--	C43	--	--	--	--	--	--
--	C48	--	--	--	--	--	1049
C53	C53	--	Cf53 1.1213	XC48 TS	070M55	--	(1050)
37Cr4 appr.	36CrMn4	35Cr4	37Cr4 1.7034	38C4	--	38ChA	5135
41CrMo4	41CrMo4	40Cr	41CrMo4 1.7225	--	--	40Ch	4142
--	40NiCrMo3	--	--	--	--	--	--
50CrMo4	50CrMo4	ZG50CrMo	50CrMo4 1.7228	--	--	50Ch	4150

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Spring steels

C60E	C60	60	Ck60 Cm60 1.1221 1.1223	--	070M60	60	1060
56Si7	55Si7	55Si2Mn	55Si7 1.5026	55S7	251A58	55S2	9255
60SiCr8	60SiCr8	60Si2CrA	60SiCr7 1.7108	61SC7	--	60S2G	9261H 9262
51CrV4	50CrV4	50CrVA	50CrV4 1.8159	50CV4	735A50	50ChGF	6150
--	52SiCrNi5	ZG50CrMo	52SiCrNi5 1.7117	52SiCrNi5	--	--	--

Ball-bearing steels

102Cr6	100Cr6	Cr2	100Cr6 1.3505	100Cr6	--	ShCh15	52100
100CrMo7	100CrMo7	GC18Mo	100CrMo7 1.3537	100CD7	--	--	A485(3)
X80WMo CrV654	X82WMoV65	--	X82WMo CrV6-5-4 1.3553	Z85WCDV6	--	85Ch4M5- F2V6L	A597 CM2

Alloyed hot work tool steels

X 37CrMoV5-1	X37CrMoV5.1K U	4Cr5MoSiV	X 38CrMoV5-1 1.2343	Z 38CDV5	B-H 11	4Ch5MFS	H 11
X 40CrMoV5-1	X40CrMoV5.1.1 KU	4Cr5MoSiV1	X 40CrMoV5-1 1.2344	Z 40CDV5	B-H 13	4Ch4VMFS	H 13
--	40NiCrMoV16K U	--	35NiCrMo16 1.2766	Y35NCD16	--	--	--
55NiCrMoV7	56NiCrMoV7KU	5CrNiMo	56NiCrMoV7 1.2714	55NCDV7	BH 224	4ChMNFS	A681 L6

Steels for chrome-plating

C45E C45R	C45	45	Ck45 Cm45 1.1191 1.1201	XC48H1	080M46	45	1045
C53	C53	--	Cf53 1.1213	XC48 TS	070M55	--	1050
--	20MnV6	20MnV	20MnV6 1.5217	--	--	--	A381
42CrMo4	42CrMo4	42CrMo	42CrMo4 1.7225	42CD4	708M40	38ChM	4140
39NiCrMo3	39NiCrMo3	--	36CrNiMo4 1.6511	40NCD3	816M40	40ChN2MA	9840
50CrMo4	50CrMo4	ZG50CrMo	50CrMo4 1.7228	--	--	50Ch	4150

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Alloyed cold work tool steels

35CrMo7	35CrMo8KU	5CrMnMo	40CrMnMo7 1.2311	--	--	--	--
35CrMo8	35CrMo8KU	(5CrMnMo)	40CrMnMo7 1.2311	--	--	--	--
100CrMo7	100CrMo7	GCr18Mo	100CrMo7 1.3537	100CD7	--	--	485(3)
--	110W4KU	--	120WV4 1.2516	--	B-F1	--	A681 A10
90MnCrV8	90MnCrV8KU	9Mn2V	90MnCrV8 1.2842	90MV8	B-O2	9G2F	O - 2
X38CrMo16	X38CrMo16 1KU	--	X38CrMo16 1.2316	--	--	--	A681 D4
X153CrMoV12	X155Cr VMo121	Cr12MoV	X155CrVMo121 1.2379	X160CrMoV12 1	BD 2	Ch12Mf	A681 D 2
X210Cr12	X205Cr12KU	C12	X210Cr12 1.2080	Z200C12	BD 3	Ch12	A681 D 3
--	58SiMo8KU	--	--	--	--	--	--
60WCrV8	58WCr9KU	6CrW2Si	60WCrV7 1.2550	55WC20	--	6ChV2S	A681 S-1
C45U	C45U	(45)	1.1730	Y3 42	C45U	(45)	(1045)

High-speed steels

HS 6-5-2-5	HS 6-5-2-5	W6Mo5Cr-4V2Co5	S 6-5-2-5 1.3243	Z90WDKCV 06-05-05-04-02	BM35	R6M5K5	A600M36
HS 2-9-1-8	HS 2-9-1-8	W2Mo9-Cr4VCo8	S 2-10-1-8 1.3247	Z110DKCWV 09-08-04-02-01	BM42	R2AM9K5	A600 M42
HS 6-5-2C	HS 6-5-2	CW6Mo5-Cr4V2	S 6-5-2 1.3343	Z90WDCV 06.05.02	BM2	R6AM5	A600 M-2
HS 10-4-3-10	HS 10-4-3-10	--	HS 10-4-3-10 1.3207	Z130WKCDV 10.10.04.04.03	BT42	R9M4K8	A600 M44

Stainless steels

X8CrNiS18-9	X10CrNiS18-09	Y1Cr18Ni9	X10CrNiS18-9 1.4305	Z8CNF18-09	303S31	12Ch18N10E	303
X5CrNi18-10	X5CrNi18-10	0Cr18Ni9	X5CrNi18-10 1.4301	Z5CN18-09	304S15	07Ch18N10	304
X5CrNiMo 17-12-2	X5CrNiMo17 12	0Cr17-Ni12Mo2	X5CrNiMo 17-12-2 1.4401	Z7CND 17-12-02	316S31	08Ch17-N13M2	316
X12CrS13	X12CrS13	Y1Cr13	X12CrS13 1.4005	Z11CF13	416S21	--	416

X20Cr13	X20Cr13	2Cr13	X20Cr13 1.4021	Z20C13	420S37	20Ch13	420
X6Cr17	X8Cr17	1Cr17	X6Cr17 1.4016	Z8C17	430S17	12Ch17	430
X17CrNi16-2	X17CrNi16-2	1Cr17Ni2	X17CrNi16-2 1.4057	Z15CN16-02	431S29	17Ch17N2	431

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Unalloyed steels

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(15S10)	--	--	--	--	(214A15)	--	1117
--	C18	20	St 45.8 1.0405	--	080A17	18G	1018
C45E	C45	45	CK45 1.1191	XC48H1	080M46	45G	1045
CB4 FF KD	CB4 FF	--	C4 C 1.0303	--	--	--	--
C21 KD	CB20 FF	20g	C22 C 1.1152	--	--	--	--
C22	C20	20	C22 1.0402	C20	070M20	20A	M1020