

Mechanical Engineering market grades

Non alloy engineering steels

Alloying elements	Euronorm	W.-Nr.	UK	USA
C	P250GH	1.0460	070M20	SAE 1020
	C22	1.0402		
	C35-C35E-C35R	1.0501	080M36	SAE 1035
		1.1180	070M36	
		1.1181	40H5	
	C45-C45E-C45R	1.0503	080M46	SAE 1045
		1.1191	070M46	SAE 1042
		1.1201	50M5	SAE 1043
	C55-C55E-C55R	1.0535	070M55	SAE 1055
		1.1203	50	
		1.1209	EN9	
C-Mn	S235JR	1.0037		SAE 1009
	S235J0	1.0114	40C	A284C
	S235J2G3	1.0116		A284D
	S355JR	1.0045		SAE 1518
	S355J0	1.0553	50B	SAE A572
	S355J2G3	1.0570	50C	A678GrA
				A441
				A833

Case-hardening steels:

Alloying elements	Euronorm	W.-Nr.	UK	USA
Cr-Mo	18CrMo4 • 18CrMoS4	1.7243 • 1.7244	708H20	SAE 4118
	20MoCr4 • 20MoCrS4	1.7321 • 1.7323		
Mn-Cr	16MnCr5 • 16MnCrS5	1.7131 • 1.7139	527M17 • 590M17	SAE 5115
	20MnCr5 • 20MnCrS5	1.7147 • 1.7149		SAE 5120
Ni-Cr	14NiCr11	1.5732		
	15NiCr13	1.5752	655M13	SAE 3312
	16NiCr4 • 16NiCrS4	1.5714 • 1.5715	637M17	SAE 3115
	17CrNi6-6	1.5918		
	20NiCr4			
Ni-Cr-Mo	16NiCrMo13			
	18CrNiMo7-6	1.6587	820A16	
	18NiCrMo5			
	20NiCrMo2 • 20NiCrMoS2	1.6523 • 1.6526	805M20	SAE 8620
	20NiCrMo7			SAE 4320

Some grades require a minimum volum order commitment, please contact us.

Through and Surface hardening steels

Alloying elements	Euronorm	W.-Nr.	UK	USA
Cr-V	51CrV4	1.8159	755A51 • 735A50	SAE 6150
	25CrMo4 • 25CrMoS4	1.7218 • 1.7213	708A25	SAE 4130
	40CrMo4		CF510	
	42CrMo4 • 42CrMoS4	1.7225	708M40 • 709M40	SAE 4140 • SAE 4142
	50CrMo4	1.7228	708A140 • M50	SAE 4150
	30CrNiMo8	1.6580	823M30	SAE 4330V
	30NiCrMoV10			
	34CrNiMo6	1.6582	817M40	SAE 4340
	36NiCrMo16	1.6773	835M30	
	39NiCrMo3			
Ni-Cr-Mo	40NiCrMo7	1.6565		SAE 4340
	40NiCrMo10	1.6745	826M40	

Nitriding steels

Alloying elements	Euronorm	W.-Nr.	UK	USA
Cr-Mo / Cr-Mo-V	15CrMoV5-9	1.8521		
	31CrMo12	1.8515	722M24	
	31CrMoV9	1.8519		
Cr-Al-Mo / Cr-Al-Ni	34CrAlNi7-10	1.8550		
	41CrAlMo7-10	1.8509	905M39	Nitriding Steel (135)

High chromium steels

Alloying elements	Euronorm	W.-Nr.	UK	Spain	USA
9% Cr	X11CrMo9-1	1.7386	9Cr1Mo		A182GrF9 • A213GrT9 • A335GrPg
	X12CrMo9-1				
13%Cr	X10CrMoVNb9-1	1.4903			A182GrF91 • A182GrF92 A213GrT91 • A213GrT92 A335GrP91 • A335GrP92
	X12CrMoVNb9-1				
13%Cr	X12Cr13	1.4006	410S21	F3401	AISI 410
	X20Cr13	1.4021	420S29 • 420S37	F3402	AISI 420

Machining grades with high mechanical properties (without heat treatment)

Steels with improved machinability

Case-hardening steels with optimized Jominy and enhanced quenchability

Steels allowing heat treatment within the hot forging process (balnitic and AFP steels)

Specialty

VITAC® D830
VITAC® D950
VITAC® 3000
SUPERVITAC®
JOMASCO®
METASCO® MC
METASCO® 1200