

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	
C-Mn		1.1209	EN9	
	S235JR	1.0037	40C	SAE 1009
	S235J0	1.0114		A284C
	S235J2G3	1.0116		A284D
	S355JR	1.0045	50B 50C	SAE 1518
	S355J0	1.0553		SAE A572
	S355J2G3	1.0570		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
Cr-Mo	25CrMo4 • 25CrMoS4	1.7218 • 1.7213	708A25 708M25	SAE 4130
			CF510	
	40CrMo4			SAE 4140
	42CrMo4 • 42CrMoS4	1.7225	708M40 • 709M40	SAE 4140 • SAE 4142
Ni-Cr-Mo	50CrMo4	1.7228	708A140 • M50	SAE 4150
	30CrNiMo8	1.6580	823M30	
	30NiCrMoV10			SAE 4330V
	34CrNiMo6	1.6582	817M40	SAE 4340
	36NiCrMo16	1.6773	835M30	
	39NiCrMo3			
	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 • A335GrP9
	X12CrMo9-1				
13%Cr	X10CrMoVNb9-1	1.4903			A182GrF91 • A182GrF92
	X12CrMoVNb9-1				A213GrT91 • A213GrT92
	X12Cr13	1.4006	410S21	F3401	AISI 410
	X20Cr13	1.4021	420S29 • 420S37	F.3402	AISI 420

Specialty

Machining grades with high mechanical properties (without heat treatment)

VITAC® D830

Steels with improved machinability

VITAC® D950

VITAC® 3000

SUPERVITAC®

Case-hardening steels with optimized Jominy and enhanced quenchability

JOMASCO®

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

METASCO® MC

METASCO® 1200