

Carbon Steels and Alloy Steels

DIN 17200

Chemical Composition, %

Steel Grade	C	Si Max	Mn	P Max	S Max	Cr	Mo	Ni	V
C 22	.17/.24	0.4	.30/.60	0.045	0.045	—	—	—	—
Ck 22	.17/.24	0.4	.30/.60	0.035	0.03	—	—	—	—
Cm 22	.17/.24	0.4	.30/.60	0.035	.020/.035	—	—	—	—
C 25	.22/.29	0.4	.40/.70	0.045	0.045	—	—	—	—
Ck 25	.22/.29	0.4	.40/.70	0.035	0.03	—	—	—	—
Cm 25	.22/.29	0.4	.40/.70	0.035	.020/.035	—	—	—	—
C 30	.27/.34	0.4	.50/.80	0.045	0.045	—	—	—	—
Ck 30	.27/.34	0.4	.50/.80	0.035	0.03	—	—	—	—
Cm 30	.27/.34	0.4	.50/.80	0.035	.020/.035	—	—	—	—
C 35	.32/.39	0.4	.50/.80	0.045	0.045	—	—	—	—
Ck 35	.32/.39	0.4	.50/.80	0.035	0.03	—	—	—	—
Cm 35	.32/.39	0.4	.50/.80	0.035	.020/.035	—	—	—	—
C 40	.37/.44	0.4	.50/.80	0.045	0.045	—	—	—	—
Ck 40	.37/.44	0.4	.50/.80	0.035	0.03	—	—	—	—
Cm 40	.37/.44	0.4	.50/.80	0.035	.020/.035	—	—	—	—
C 45	.42/.50	0.4	.50/.80	0.045	0.045	—	—	—	—
Ck 45	.42/.50	0.4	.50/.80	0.035	0.03	—	—	—	—
Cm 45	.42/.50	0.4	.50/.80	0.035	.020/.035	—	—	—	—
C 50	.47/.55	0.4	.60/.90	0.045	0.045	—	—	—	—
Ck 50	.47/.55	0.4	.60/.90	0.035	0.03	—	—	—	—
Cm 50	.47/.55	0.4	.60/.90	0.035	.020/.035	—	—	—	—
C 55	.52/.60	0.4	.60/.90	0.045	0.045	—	—	—	—
Ck 55	.52/.60	0.4	.60/.90	0.035	0.03	—	—	—	—
Cm 55	.52/.60	0.4	.60/.90	0.035	.020/.035	—	—	—	—
C 60	.57/.65	0.4	.60/.90	0.045	0.045	—	—	—	—
Ck 60	.57/.65	0.4	.60/.90	0.035	0.03	—	—	—	—
Cm 60	.57/.65	0.4	.60/.90	0.035	.020/.035	—	—	—	—
28 Mn 6	.25/.35	0.4	1.30/1.65	0.035	0.03	—	—	—	—
32 Cr 2	.28/.35	0.4	.50/.80	0.035	0.03	.40/.60	—	—	—
32 CrS 2	.28/.35	0.4	.50/.80	0.035	.020/.035	.40/.60	—	—	—

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Steel Grade	C	Si Max	Mn	P Max	S Max	Cr	Mo	Ni	V
38 Cr 2	.35/.42	0.4	.50/.80	0.035	0.03	.40/.60	—	—	—
38 CrS 2	.35/.42	0.4	.50/.80	0.035	.020/.035	.40/.60	—	—	—
46 Cr 2	.42/.50	0.4	.50/.80	0.035	0.03	.40/.60	—	—	—
46 CrS 2	.42/.50	0.4	.50/.80	0.035	.020/.035	.40/.60	—	—	—
28 Cr 4	.24/.31	0.4	.60/.90	0.035	0.03	.90/1.20	—	—	—
28 CrS 4	.24/.31	0.4	.60/.90	0.035	.020/.035	.90/1.20	—	—	—
34 Cr 4	.30/.37	0.4	.60/.90	0.035	0.03	.90/1.20	—	—	—
34 CrS4	.30/.37	0.4	.60/.90	0.035	.020/.035	.90/1.20	—	—	—
37 Cr 4	.34/.41	0.4	.60/.90	0.035	0.03	.90/1.20	—	—	—
37 CrS 4	.34/.41	0.4	.60/.90	0.035	.020/.035	.90/1.20	—	—	—
41 Cr 4	.38/.45	0.4	.60/.90	0.035	0.03	.90/1.20	—	—	—
41 CrS 4	.38/.45	0.4	.60/.90	0.035	.020/.035	.90/1.20	—	—	—
25 CrMo 4	.22/.29	0.4	.60/.90	0.035	0.03	.90/1.20	.15/.30	—	—
25 CrMoS 4	.22/.29	0.4	.60/.90	0.035	.020/.035	.90/1.20	.15/.30	—	—
34 CrMo 4	.30/.37	0.4	.60/.90	0.035	0.03	.90/1.20	.15/.30	—	—
34 CrMoS 4	.30/.37	0.4	.60/.90	0.035	.020/.035	.90/1.20	.15/.30	—	—
42 CrMo 4	.38/.45	0.4	.60/.90	0.035	0.03	.90/1.20	.15/.30	—	—
42 CrMoS 4	.38/.45	0.4	.60/.90	0.035	.020/.035	.90/1.20	.15/.30	—	—
50 CrMo 4	.46/.54	0.4	.50/.80	0.035	0.03	.90/1.20	.15/.30	—	—
36 CrNiMo 4	.32/.40	0.4	.50/.80	0.035	0.03	.90/1.20	.15/.30	.90/1.20	—
34 CrNiMo 6	.30/.38	0.4	.40/.70	0.035	0.03	1.40/1.70	.15/.30	1.40/1.70	—
30 CrNiMo 8	.26/.34	0.4	.30/.60	0.035	0.03	1.80/2.20	.30/.50	1.80/2.20	—
50 CrV 4	.47/.55	0.4	.70/1.10	0.035	0.03	.90/1.20	—	—	.10/.20
30 CrMoV 9	.26/.34	0.4	.40/.70	0.035	0.03	2.30/2.70	.15/.25	—	.10/.20