

TOTAL P.03

0.15-0.35

0.80-1.20

0.80-
1.00

0.30Ti
0.10Al
0.15-
0.30Ti

Iron, sulphur and phosphorus contents are not listed, but are specified; see appropriate standard for more

jr. 0.020-0.035%
jr. 0.020-0.030%
jr. 0.015-0.038%

correlate the various metal designations from country to country, let alone comparing several countries and view that chemical composition may be similar, but not identical, and that manufacturing technologies may be different. The cross references made in this table are, at best, only listed as a guide to assist in finding comparable metal designations.

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S

P

MN

Si

C

S45C	0.42-0.48	0.15-0.45	0.60-0.90	0.030-0.035
S40C	0.37-0.43	0.15-0.35	0.60-0.90	0.030-0.035
S10C	0.08-0.13	0.15-0.35	0.30-0.60	0.030-0.035

Chapter 17 International Cross References - Carbon & Alloy Steels

JAPANESE CROSS REFERENCES FOR CARBON STEELS

1008	0.12	0.35	0.50	0.040	0.040	0.20Cr, 0.20Ni, 0.25Cu, Mn+Cr = 0.30
1028	0.25-0.35	0.35	0.30-1.00	0.040	0.040	
1048	0.45-0.55	0.40	0.40-1.00	0.040	0.025	0.025
1015	0.18-0.23	0.15-0.35	0.30-0.60	0.025	0.025	0.025
1010	0.07-0.12	0.15-0.35	0.30-0.60	0.030	0.035	0.035
1012	0.08-0.13	0.15-0.35	0.30-0.60	0.030	0.035	0.035
1017	0.10-0.15	0.15-0.35	0.30-0.60	0.030	0.035	0.035
1020	0.13-0.18	0.15-0.35	0.30-0.60	0.030	0.035	0.035
1022	0.15-0.20	0.15-0.35	0.30-0.60	0.030	0.035	0.035
1025	0.18-0.23	0.15-0.35	0.30-0.60	0.030	0.035	0.035
1029	0.20-0.25	0.15-0.35	0.30-0.60	0.030	0.035	0.035
1035	0.22-0.28	0.15-0.35	0.30-0.60	0.030	0.035	0.035
1037	0.25-0.31	0.15-0.35	0.30-0.60	0.030	0.035	0.035
1040	0.27-0.33	0.15-0.35	0.30-0.60	0.030	0.035	0.035
	0.32-0.38	0.15-0.35	0.30-0.60	0.030	0.035	0.035
	0.37-0.43	0.15-0.35	0.30-0.60	0.030	0.035	0.035

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