

JIS G4051-1979

Symbol of Class	Chemical Composition %					AISI
	C	Si	Mn	P	S	
S 10 C	0.08~0.13	0.15~0.35	0.30~0.60	0.030 max.	0.035 max.	1010
S 12 C	0.10~0.15	0.15~0.35	0.30~0.60	0.030 max.	0.035 max.	1012
S 15 C	0.13~0.18	0.15~0.35	0.30~0.60	0.030 max.	0.035 max.	1015
S 17 C	0.15~0.20	0.15~0.35	0.30~0.60	0.030 max.	0.035 max.	1017
S 20 C	0.18~0.23	0.15~0.35	0.30~0.60	0.030 max.	0.035 max.	1020
S 22 C	0.20~0.25	0.15~0.35	0.30~0.60	0.030 max.	0.035 max.	1023
S 25 C	0.22~0.28	0.15~0.35	0.30~0.60	0.030 max.	0.035 max.	1025
S 28 C	0.25~0.31	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	1029
S 30 C	0.27~0.33	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	1030
S 33 C	0.30~0.36	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	-
S 35 C	0.32~0.38	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	1035
S 38 C	0.35~0.41	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	1038
S 40 C	0.37~0.43	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	1040
S 43 C	0.40~0.46	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	1043
S 45 C	0.42~0.48	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	1045
S 48 C	0.45~0.51	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	-
S 50 C	0.47~0.53	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	1049
S 53 C	0.50~0.56	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	1053
S 55 C	0.52~0.58	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	1055
S 58 C	0.55~0.61	0.15~0.35	0.60~0.90	0.030 max.	0.035 max.	1059
S 09 CK	0.07~0.12	0.10~0.35	0.30~0.60	0.025 max.	0.025 max.	-
S 15 CK	0.13~0.18	0.15~0.35	0.30~0.60	0.025 max.	0.025 max.	-
S 20 CK	0.18~0.23	0.15~0.35	0.30~0.60	0.025 max.	0.025 max.	-

Remark: 1. As impurities, Cu, Ni, Cr and Ni + Cr for classes S 09 CK, S 20 CK shall not exceed respectively 0.25%, 0.20%, 0.20% and 0.30%, and Cu, Ni, Cr and Ni + Cr for throughout other classes shall not exceed respectively 0.30%, 0.20%, 0.20% and 0.35%.

2. When the product analysis on steel is requested by the purchaser, the tolerance for the product analysis shall conform to Table 2 specified in JIS G 0321.