

JIS G4105-1979

Symbol of Class	Reference	Chemical Composition %							
	Previous Symbol	C	Si	Mn	P	S	Cr	Mo	AISI
SCM 415	SCM 21	0.13-0.18	0.15-0.35	0.60-0.85	0.030 max.	0.030 max.	0.90-1.20	0.15-0.30	-
SCM 418	-	0.16-0.21	0.15-0.35	0.60-0.85	0.030 max.	0.030 max.	0.90-1.20	0.15-0.30	-
SCM 420	SCM 22	0.18-0.23	0.15-0.35	0.60-0.85	0.030 max.	0.030 max.	0.90-1.20	0.15-0.30	-
SCM 421	SCM 23	0.17-0.23	0.15-0.35	0.70-1.00	0.030 max.	0.030 max.	0.90-1.20	0.15-0.30	-
SCM 430	SCM 2	0.28-0.33	0.15-0.35	0.60-0.85	0.030 max.	0.030 max.	0.90-1.20	0.15-0.30	4130
SCM 432	SCM 1	0.27-0.37	0.15-0.35	0.30-0.60	0.030 max.	0.030 max.	1.00-1.50	0.15-0.30	-
SCM 435	SCM 3	0.33-0.38	0.15-0.35	0.60-0.85	0.030 max.	0.030 max.	0.90-1.20	0.15-0.30	4137
SCM 440	SCM 4	0.38-0.43	0.15-0.35	0.60-0.85	0.030 max.	0.030 max.	0.90-1.20	0.15-0.30	4140
SCM 445	SCM 5	0.43-0.48	0.15-0.35	0.60-0.85	0.030 max.	0.030 max.	0.90-1.20	0.15-0.30	4145
SCM 822	SCM 24	0.20-0.25	0.15-0.35	0.60-0.85	0.030 max.	0.030 max.	0.90-1.20	0.35-0.45	-

Remark: 1. As impurities, Ni and Cu shall not exceed 0.25% and 0.30%, respectively, throughout all classes.

2. When the product analysis on steel is requested by the purchaser, the tolerance for the product analysis shall conform to Table 3 in JIS G 0321.

Application: SCM 415, SCM 418, SCM420, SCM421 and SCM 822 are used mainly for case hardening.