

AISI 化学成分

化学成分表										
钢种		化学成分								
Grade NO.	UNS NO.	C	Mn	P	S	Si	Cr	Ni	Mo	其他
AISI 201	S20100	≤0.15	5.50~7.50	≤0.060	≤0.030	≤0.75	16.00~18.00	3.50~5.50	-	N≤0.25
AISI 202	S20200	≤0.15	7.50~10.00	≤0.060	≤0.030	≤0.75	17.00~19.00	4.00~6.00	-	N≤0.25
AISI 205	S20500	0.12~0.25	14.0~15.5	≤0.060	≤0.030	≤0.75	16.50~18.00	1.00~1.75	-	N 0.32~0.40
AISI 301	S30100	≤0.15	≤2.00	≤0.045	≤0.030	≤0.75	16.00~18.00	6.00~8.00	-	N~0.10
AISI 302	S30200	≤0.15	≤2.00	≤0.045	≤0.030	≤0.75	17.00~19.00	8.00~10.00	-	N~0.10
AISI 302B	S30215	≤0.15	≤2.00	≤0.045	≤0.030	2.00~3.00	17.00~19.00	8.00~10.00	-	N~0.10

AISI 303	S30300	≤0.15	≤2.00	≤0.20	≥0.15	≤1.00	17.00~ 19.00	8.00~ 10.00	-	N~0.10
AISI 303Se	S30323	≤0.15	≤2.00	≤0.20	≤0.06	≤1.00	17.00~ 19.00	8.00~ 10.00	-	-
AISI 304	S30400	≤0.08	≤2.00	≤0.045	≤0.030	≤0.75	18.00~ 20.00	8.00~ 10.50	-	Se≥0.15
AISI 304L	S30403	≤0.030	≤2.00	≤0.045	≤0.030	≤0.75	18.00~ 20.00	8.00~ 12.00	-	N~0.10
AISI 304N	S30451	≤0.08	≤2.00	≤0.045	≤0.030	≤0.75	18.00~ 20.00	8.00~ 10.50	-	N~0.10
AISI 304LN	S30453	≤0.030	≤2.00	≤0.045	≤0.030	≤0.75	18.00~ 20.00	10.50~ 12.00	-	N 0.10~0.16
AISI 305	S30500	≤0.12	≤2.00	≤0.045	≤0.030	≤0.75	17.00~ 19.00	10.50~ 13.00	-	N 0.10~0.16
AISI 308	S30800	≤0.08	≤2.00	≤0.045	≤0.030	≤0.75	19.00~ 21.00	10.00~ 12.00	-	-
AISI 309	S30900	≤0.20	≤2.00	≤0.045	≤0.030	≤0.75	22.00~ 24.00	12.00~ 15.00	-	-
AISI 309S	S30908	≤0.08	≤2.00	≤0.045	≤0.030	≤0.75	22.00~ 24.00	12.00~ 15.00	-	-
AISI	S31000	≤0.25	≤2.00	≤0.045	≤0.030	≤1.50	24.00~	19.00~	-	-

310							26.00	22.00		
AISI 310S	S31008	≤0.08	≤2.00	≤0.045	≤0.030	≤1.50	24.00~ 26.00	19.00~ 22.00	-	-
AISI 314	S31400	≤0.25	≤2.00	≤0.045	≤0.030	1.50~ 3.00	23.00~ 26.00	19.00~ 22.00	-	-
AISI 316	S31600	≤0.08	≤2.00	≤0.045	≤0.030	≤0.75	16.00~ 18.00	10.00~ 14.00	1.75~ 2.25	-
AISI 316F	S31620	≤0.08	≤2.00	≤0.20	≤0.10	≤0.75	16.00~ 18.00	10.00~ 14.00	1.75~ 2.25	-
AISI 316L	S31603	≤0.030	≤2.00	≤0.045	≤0.030	≤0.75	16.00~ 18.00	10.00~ 14.00	2.00~ 3.00	-
AISI 316Ti	S31635	≤0.08	≤2.00	≤0.045	≤0.030	≤0.75	16.00~ 18.00	10.00~ 14.00	2.00~ 3.00	N≤0.10, Ti≥5x(C+N) ~ 0.7
AISI 316N	S31651	≤0.08	≤2.00	≤0.045	≤0.030	≤0.75	16.00~ 18.00	10.00~ 14.00	2.00~ 3.00	N 0.10~0.16
AISI 317	S31700	≤0.08	≤2.00	≤0.045	≤0.030	≤0.75	18.00~ 20.00	11.00~ 15.00	3.00~ 4.00	-
AISI 317L	S31703	≤0.030	≤2.00	≤0.045	≤0.030	≤0.75	18.00~ 20.00	11.00~ 15.00	3.00~ 4.00	-
AISI 321	S32100	≤0.08	≤2.00	≤0.045	≤0.030	≤0.75	17.00~ 19.00	9.00~ 12.00	-	N≤0.10, Ti≥5x(C+N) ~ 0.7
AISI S32900		≤0.10	≤2.00	≤0.040	≤0.030	≤0.75	23.00~	2.5~	1.00~	-

329							28.00	5.00	2.00	
AISI 347	S34700	≤0.08	≤2.00	≤0.045	≤0.030	≤0.75	17.00~ 19.00	9.00~ 13.00	-	Nb +Ta ≥ 10 x C%~1.00
AISI 348	S34800	≤0.08	≤2.00	≤0.045	≤0.030	≤0.75	17.00~ 19.00	9.00~ 13.00	-	Nb +Ta ≥ 10 x C%~1.00 Ta≥0.10, Co≥0.20
AISI 403	S40300	≤0.15	≤1.00	≤0.040	≤0.030	≤0.50	11.50~ 13.00	-	-	-
AISI 405	S40500	≤0.08	≤1.00	≤0.040	≤0.030	≤1.00	11.50~ 14.50	-	-	Al 0.10~0.30
AISI 409	S40900	≤0.08	≤1.00	≤0.045	≤0.045	≤1.00	10.50~ 11.75	-	-	Ti 6 x C%~0.75
AISI 410	S41000	≤0.15	≤1.00	≤0.040	≤0.030	≤1.00	11.50~ 13.50	≤0.75	-	-
AISI 414	S41400	≤0.15	≤1.00	≤0.040	≤0.030	≤1.00	11.50~ 13.50	1.25~ 2.50	-	-
AISI 416	S41600	≤0.15	≤1.25	≤0.06	≤0.15	≤1.00	12.00~ 14.00	-	-	-
AISI 416Se	S41623	≤0.15	≤1.25	≤0.06	≤0.06	≤1.00	12.00~ 14.00	-	-	Se≥0.15
AISI 420	S42000	>0.15	≤1.00	≤0.040	≤0.030	≤1.00	12.00~ 14.00	≤0.75	≤0.50	-
AISI	S42020	0.30~	≤1.25	≤0.06	≤0.15	≤1.00	12.00~	≤0.50	-	Cu≤0.60

420F		0.40					14.00			
AISI 429	S42900	≤0.12	≤1.00	≤0.040	≤0.030	≤1.00	14.00~ 16.00	≤0.75	-	-
AISI 430	S43000	≤0.12	≤1.00	≤0.040	≤0.030	≤1.00	16.00~ 18.00	≤0.75	-	-
AISI 430F	S43020	≤0.12	≤1.25	≤0.06	≤0.15	≤1.00	16.00~ 18.00	-	-	-
AISI 430FSe	S43023	≤0.12	≤1.25	≤0.06	≤0.06	≤1.00	16.00~ 18.00	-	-	Se ≥ 0.15
AISI 431	S43100	≤0.20	≤1.00	≤0.040	≤0.030	≤1.00	15.00~ 17.00	1.25~ 2.50	-	-
AISI 434	S43400	≤0.12	≤1.00	≤0.040	≤0.030	≤1.00	16.00~ 18.00	-	-	-
AISI 440A	S44002	0.60~ 0.75	≤1.00	≤0.040	≤0.030	≤1.00	16.00~ 18.00	-	-	-
AISI 440B	S44003	0.75~ 0.95	≤1.00	≤0.040	≤0.030	≤1.00	16.00~ 18.00	-	-	-
AISI 440C	S44004	0.95~ 1.20	≤1.00	≤0.040	≤0.030	≤1.00	16.00~ 18.00	-	-	-
AISI 442	S44200	≤0.20	≤1.00	≤0.040	≤0.030	≤1.00	18.00~ 23.00	-	-	-
AISI	S44600	≤0.20	≤1.50	≤0.040	≤0.030	≤1.00	23.00~	≤0.75	-	N ≤ 0.25

446							27.00			
AISI 631	S17700	≤0.09	≤1.00	≤0.040	≤0.030	≤1.00	16.00~ 18.00	6.50~ 7.50	0.40~ 0.65	AI 0.75~1.00