

Stainless and Heat Resisting Steels

No.	Standard AISI	German Standard No.	UNS	SAE J405	JIS	Carbon (C) %	Silicon (Si) %	Manganese (Mn) %	Phosphorus (P) %	Sulfur (S) %	Chromium (Cr) %	Molybdenum (Mo) %	Nikel (Ni) %	Copper (Cu) %	Titanium (Ti) %	Niobium (Nb) & Tantalum (Ta) %	Vanadium (V) %	Nitrogen (N) %	Aluminium (Al) %	Selenium (Se) %	Zirconium (Zr) %	Tantalum (Ta) %	Niobium (Columbium) (Nb) %	Cobalt (Co) %	Lead (Pb) %	Tungsten (W) %	
1	201	-	S 20100	30201	SUS 201	≤0.15	≤1.00	5.50 - 7.50	≤0.060	≤0.030	16.0 - 18.0	→	3.50 - 5.50														
2	202	1.3965/1.4371	S 20200	30202	SUS 202	≤0.15	≤1.00	7.50 - 10.0	≤0.060	≤0.030	17.0 - 19.0	→	4.00 - 6.00														
3	203EZ	-	S 20300	203 EZ	-	≤0.08	≤1.00	5.00 - 6.50	≤0.040	0.18 - 0.35	16.0 - 18.0	≤0.50	1.75 - 2.25														
4	205	-	S 20500	-	-	0.12 - 0.25	≤1.00	14.0 - 15.5	≤0.060	≤0.030	16.5 - 18.0	→	1.00 - 1.75														
5	301	1.4310	S 30100	30301	SUS 301	≤0.15	≤1.00	≤2.00	≤0.045	≤0.030	16.0 - 18.0	→	6.00 - 8.00														
6	302	1.4319	S 30200	30302	SUS 302	≤0.15	≤1.00	≤2.00	≤0.045	≤0.030	17.0 - 19.0	→	8.00 - 10.00														
7	302 B	-	S 30215	30302 B	-	≤0.15	2.00 - 3.00	≤2.00	≤0.045	≤0.030	17.0 - 19.0	→	8.00 - 10.00														
8	303	1.4305	S 30300	30303	SUS 303	≤0.15	≤1.00	≤2.00	≤0.200	≤0.150	17.0 - 19.0	→	8.00 - 10.00														
9	303 Cu	-	S 30330	303 Cu	-	≤0.15	≤1.00	≤2.00	≤0.150	≤0.100	17.0 - 19.0	→	6.00 - 10.00	2.50 - 4.00													
10	303 MA	-	S 30345	303 MA	-	≤0.15	≤1.00	≤2.00	≤0.050	0.11 - 0.16	17.0 - 19.0	0.40 - 0.60	8.00 - 10.00														
11	303 Pb	-	S 30360	303 Pb	-	≤0.15	≤1.00	≤2.00	≤0.040	0.12 - 0.25	17.0 - 19.0	→	8.00 - 10.00														
12	303 plus X	-	S 30310	303 plus X	-	≤0.15	≤1.00	2.50 - 4.50	≤0.200	≤0.150	17.0 - 19.0	→	7.00 - 10.00														
13	303 Se	-	S 30323	30303 Se	SUS 303 Se	≤0.15	≤1.00	≤2.00	≤0.200	≤0.060	17.0 - 19.0	→	8.00 - 10.00														
14	304	1.4301	S 30400	30304	SUS 304	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	18.0 - 20.0	→	8.00 - 10.50														
15	304 Cu	-	S 30430	-	-	≤0.08	≤0.75	≤2.00	≤0.045	≤0.030	17.0 - 19.0	→	8.00 - 10.00	3.00 - 4.00													
16	304 H	1.4948	S 30409	-	-	0.04 - 0.10	≤1.00	≤2.00	≤0.040	≤0.030	18.0 - 20.0	→	8.00 - 11.00														
17	304 L	1.4306	S 30403	30304 L	SUS 304 L	≤0.03	≤1.00	≤2.00	≤0.045	≤0.030	18.0 - 20.0	→	8.00 - 12.00														
18	304 LN	1.4311	S 30453	-	SUS 304 LN	≤0.03	≤1.00	≤2.00	≤0.045	≤0.030	18.0 - 20.0	→	8.00 - 12.00														
19	304 N	-	S 30451	-	-	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	18.0 - 20.0	→	8.00 - 10.50														
20	305 (L)	1.4303	S 30500	30305	-	≤0.12 (≤0.08)	≤1.00	≤2.00	≤0.045	≤0.030	17.0 - 19.0	→	10.50 - 13.00														
21	(307)	-	-	-	-	≤0.15	≤1.00	3.75 - 4.75	≤0.045	≤0.030	19.0 - 22.0	→	9.00 - 10.50														
22	308	1.4303	S 30800	30308	SUS 308	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	19.0 - 21.0	→	10.00 - 12.00														
23	309	1.4828	S 30900	30309	SUH 309	≤0.20	≤1.00	≤2.00	≤0.045	≤0.030	22.0 - 24.0	→	12.00 - 15.00														
24	309 H	-	S 30909	-	-	0.04 - 0.10	≤0.75	≤2.00	≤0.040	≤0.030	22.0 - 24.0	→	12.00 - 16.00														
25	309 HCb	-	S 30941	-	-	0.04 - 0.10	≤0.75	≤2.00	≤0.040	≤0.030	22.0 - 24.0	→	12.00 - 16.00	≤0.75	→	10xC ≤ 1.10											
26	309 S	1.4833	S 30908	30309 S	SUS 309 S	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	22.0 - 24.0	→	12.00 - 15.00														
27	(309 SCb)	-	S 30940	-	-	≤0.08	≤1.00	≤2.00	≤0.040	≤0.030	22.0 - 24.0	→	12.00 - 15.00														
28	310	1.4841	S 31000	30310	SUH 310	≤0.25	≤1.50	≤2.00	≤0.045	≤0.030	24.0 - 26.0	→	19.00 - 22.00														
29	310 H	-	S 31009	-	-	0.04 - 0.10	≤0.75	≤2.00	≤0.040	≤0.030	24.0 - 26.0	→	19.00 - 22.00														
30	310 Cb	-	S 31040	-	-	≤0.08	≤1.50	≤2.00	≤0.045	≤0.030	24.0 - 26.0	→	19.00 - 22.00														
31	310 HCb	-	S 31041	-	-	0.04 - 0.10	≤0.75	≤2.00	≤0.045	≤0.030	24.0 - 26.0	→	19.00 - 22.00	≤0.75	→	10xC ≤ 1.10											
32	310 S	1.4845	S 31008	30310 S	SUS 310 S	≤0.08	≤1.50	≤2.00	≤0.045	≤0.030	24.0 - 26.0	→	19.00 - 22.00														
33	314	1.4841	S 31400	30314	SUH 314	≤0.25	1.50 - 3.00	≤2.00	≤0.045	≤0.030	23.0 - 26.0	→	19.00 - 22.00														
34	316	1.4401/1.4436	S 31600	30316	SUS 316	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	16.0 - 18.0	2.00 - 3.00	10.00 - 14.00														
35	(316 Cb)	1.4580	S 31640	-	-	≤0.08	≤1.00	≤2.00	→	→	16.0 - 18.0	2.00 - 3.00	10.00 - 14.00														
36	316 F	-	S 31620	-	-	≤0.08	≤1.00	≤2.00	≤0.200	≤0.100	17.0 - 19.0	1.75 - 2.50	12.00 - 14.00														
37	316 H	1.4919	S 31609	-	-	0.04 - 0.10	≤1.00	≤2.00	≤0.040	≤0.030	16.0 - 18.0	2.00 - 3.00	10.00 - 14.00														
38	316 L	1.4404/1.4435	S 31603	30316 L	SUS 316 L	≤0.03	≤1.00	≤2.00	≤0.045	≤0.030	16.0 - 18.0	2.00 - 3.00	10.00 - 14.00														
39	316 LN	1.4406/1.4429	S 31653	-	SUS 316 LN	≤0.03	≤1.00	≤2.00	≤0.045	≤0.030	16.0 - 18.0	2.00 - 3.00	10.00 - 14.00														
40	316 N	-	S 31651	-	-	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	16.0 - 18.0	2.00 - 3.00	10.00 - 14.00														
41	(316 Ti)	1.4571/1.4573	S 31635	-	SUS 316 Ti	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	16.0 - 18.0	2.00 - 3.00	10.00 - 14.00	→	→	≥ 5xC											
42	317	-	S 31700	30317	SUS 317	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	18.0 - 20.0	3.00 - 4.00	11.00 - 15.00														
43	317 L	1.4438	S 31703	-	SUS 317 L	≤0.03	≤1.00	≤2.00	≤0.045	≤0.030	18.0 - 20.0	3.00 - 4.00	11.00 - 15.00														
44	317 LN	-	S 31753	-	-	≤0.03	≤0.75	≤2.00	≤0.045	≤0.080	18.0 - 20.0	3.00 - 4.00	11.00 - 15.00														
45	(318)	1.4583	-	-	-	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	17.0 - 19.0	1.75 - 2.75	13.00 - 15.00														
46	321	1.4541	S 32100	30321	SUS 321	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	17.0 - 19.0	→	9.00 - 12.00	→	→	≥ 5xC											
47	321 H	-	S 32109	-	-	0.04 - 0.10	≤1.00	≤2.00	≤0.040	≤0.030	17.0 - 19.0	→	9.00 - 12.00	→	→	4xC ≤ 0.60											
48	329	(1.4460)	S 32900	-	SUS 329 J1	≤0.20	≤0.75	≤1.00	≤0.040	≤0.030	23.0 - 28.0	1.00 - 2.00	2.50 - 5.00														
49	330	1.4864	N 08330	30330	SUH 330	≤0.08	0.75 - 1.50	≤2.00	≤0.040	≤0.030	17.0 - 20.0	→	34.00 - 37.00														
50	332	1.4333	S 33200	-	-	≤0.08	≤0.75	≤2.00	≤0.040	≤0.030	17.0 - 23.0	→	30.00 - 34.00	→	→	≤ 0.60											
51	334	1.4847	S 33400	-	-	≤0.08	≤0.75	≤1.00	≤0.040	≤0.030	18.0 - 22.0	→	18.00 - 22.00	→	→	≤ 0.60											
52	347	1.455	S 34700	30347	SUS 347	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	17.0 - 19.0	→	9.00 - 13.00	→	→	≥ 10xC											
53	347 H	-	S 34709	-	-	0.04 - 0.10	≤1.00	≤2.00	≤0.040	≤0.030	17.0 - 20.0	→	9.00 - 13.00	→	→	8xC ≤ 1.00											
54	348	1.455	S 34800	30348	SUS 348	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	17.0 - 19.0	→	9.00 - 13.00	→	→	≥ 10xC											
55	348 H	-	S 34809	-	-	0.04 - 0.10	≤1.00	≤2.00	≤0.045	≤0.030	17.0 - 20.0	→	9.00 - 13.00	→	→	8xC ≤ 1.00											
56	384	-	S 38400	30384	-	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	15.0 - 17.0	→	17.00 - 19.00														
57	385	-	S 38500	30385	-	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	11.5 - 13.5	→	14.00 - 16.00														
58	403	1.4000	S 40300	51403	SUS 403	≤0.15	≤0.50	≤1.00	≤0.040	≤0.030	11.5 - 13.0	→															

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59	405	1.4002	S 40500	51405	SUS 405	≤0.08	≤1.00	≤1.00	≤0.040	≤0.030	11.5 ~ 14.5								0.10 - 0.30									
60	409	1.4512/1.4720	S 40900	51409	SUH 409	≤0.08	≤1.00	≤1.00	≤0.045	≤0.045	10.5 ~ 11.75		≤0.50		6xC ≤ 0.75													
61	410	1.4006	S 41000	51410	SUS 410	≤0.15	≤1.00	≤1.00	≤0.040	≤0.030	11.5 ~ 13.5																	
62	(410 Cb)	-	S 41040	-	-	≤0.15	≤1.00	≤1.00	≤0.040	≤0.030	11.5 ~ 13.5												≤0.25					
63	410 S	1.4000/1.4001	S 41008	-	SUS 410S	≤0.08	≤1.00	≤1.00	≤0.040	≤0.030	11.5 ~ 13.5		≤0.60															
64	414	-	S 41400	51414	-	≤0.15	≤1.00	≤1.00	≤0.040	≤0.030	11.5 ~ 13.5		1.25 ~ 2.50															
65	416	1.4005	S 41600	51416	SUS 416	≤0.15	≤1.00	≤1.25	≤0.060	≤0.150	12.0 ~ 14.0	≤0.60 or Ze									≤0.60 or Mo							
66	416 Plus X	-	S 41610	416 Plus X	-	≤0.15	≤1.00	1.50 ~ 2.50	≤0.060	≤0.150	12.0 ~ 14.0	≤0.60																
67	416 Se	-	S 41623	51416 Se	-	≤0.15	≤1.00	≤1.25	≤0.060	≤0.060	12.0 ~ 14.0										≥0.15							
68	420	1.4021	S 42000	51420	SUS 420 J1	≤0.15	≤1.00	≤1.00	≤0.040	≤0.030	12.0 ~ 14.0																	
69	420 F	-	S 42020	51420 F	SUS 420 J2	≤0.15	≤1.00	≤1.25	≤0.060	≤0.150	12.0 ~ 14.0	≤0.60																
70	420 FSe	-	S 42023	51420 FSe	-	0.30 ~ 0.40	≤1.00	≤1.25	≤0.060	≤0.060	12.0 ~ 14.0										≥0.15							
71	422	1.4935	S 42200	-	-	0.20 ~ 0.45	≤0.75	≤1.00	≤0.040	≤0.030	11.5 ~ 13.5	0.75 ~ 1.25	0.50 ~ 1.00				0.15 ~ 0.30									0.75 ~ 1.25		
72	429	1.4001	S 42900	51429	SUS 429	≤0.12	≤1.00	≤1.00	≤0.040	≤0.030	14.0 ~ 18.0																	
73	430	1.4016	S 43000	51430	SUS 430	≤0.12	≤1.00	≤1.00	≤0.040	≤0.030	16.0 ~ 18.0																	
74	430 F	1.4104	S 43020	51430 F	SUS 430 F	≤0.12	≤1.00	≤1.25	≤0.060	≤0.150	16.0 ~ 18.0	≤0.60																
75	430 FSe	-	S 43023	51430 FSe	-	≤0.12	≤1.00	≤1.25	≤0.060	≤0.060	16.0 ~ 18.0										≥0.15							
76	(430 Ti)	1.451	S 43036	-	SUS 430 LX	≤0.10	≤1.00	≤1.00	≤0.040	≤0.030	16.0 ~ 19.5		≤0.75		5xC ≤ 0.75													
77	431	1.4057	S 43100	51431	SUS 431	≤0.20	≤1.00	≤1.00	≤0.040	≤0.030	15.0 ~ 17.0		1.25 ~ 2.50															
78	434	1.4113	S 43400	51434	SUS 434	≤0.08	≤1.00	≤1.00	≤0.040	≤0.030	16.0 ~ 18.0	0.75 ~ 1.25																
79	436	-	S 43600	51436	-	≤0.08	≤1.00	≤1.00	≤0.040	≤0.030	16.0 ~ 18.0	0.75 ~ 1.25				5xC - 0.70												
80	439	1.451	S 43900	51439	SUS 439 LX	≤0.07	≤1.00	≤1.00	≤0.040	≤0.030	17.0 ~ 19.0		≤0.50						≤0.04	≤0.15								
81	439 LL	-	S 43903	51439 LL	-	≤0.014	≤1.00	≤1.00	≤0.040	≤0.030	17.0 ~ 19.0		≤0.50						≤0.04	≤0.15								
82	440 A	-	S 44002	51440 A	SUS 440 A	0.60 ~ 0.75	≤1.00	≤1.00	≤0.040	≤0.030	16.0 ~ 18.0	≤0.75																
83	440 B	1.4112	S 44003	51440 B	SUS 440 B	0.75 ~ 0.95	≤1.00	≤1.00	≤0.040	≤0.030	16.0 ~ 18.0	≤0.75																
84	440 C	1.4125	S 44004	51440 C	SUS 440 C	0.95 ~ 1.20	≤1.00	≤1.00	≤0.040	≤0.030	16.0 ~ 18.0	≤0.75																
85	440 F	-	S 44020	51440 F	SUS 440 F	0.95 ~ 1.20	≤1.00	≤1.25	≤0.060	≤0.15	16.0 ~ 18.0	≤0.60 or Ze											≤0.60 or Mo					
86	440 Fse	-	S 44023	51440 Fse	-	0.95 ~ 1.20	≤1.00	≤1.25	≤0.060	≤0.060	16.0 ~ 18.0										≥0.15							
87	442	-	S 44200	51442	-	≤0.20	≤1.00	≤1.00	≤0.040	≤0.035	18.0 ~ 23.0																	
88	(443)	1.4521/1.4522	S 44300	-	SUS 444	≤0.20	≤1.00	≤1.00	≤0.040	≤0.030	18.0 ~ 23.0		≤0.50	0.90 ~ 1.25														
89	444	1.4521	S 44400	-	SUS 444	≤0.025	≤1.00	≤1.00	≤0.040	≤0.030	17.5 ~ 19.5	1.75 ~ 2.25								≤0.035								
90	446	1.4762	S 44600	51446	SUH 446	≤0.20	≤1.00	≤1.50	≤0.040	≤0.030	23.0 ~ 27.0										≤0.25							
91	501	1.7362	S 50100	51501	-	≤0.10	≤1.00	≤1.00	≤0.040	≤0.030	4.0 ~ 6.0	0.40 ~ 0.65																
92	502	(1.7362)	S 50200	51502	-	≤0.10	≤1.00	≤1.00	≤0.040	≤0.030	4.0 ~ 6.0	0.40 ~ 0.65																
93	503	-	S 50300	-	-	≤0.15	≤1.00	≤1.00	≤0.040	≤0.040	6.0 ~ 8.0	0.45 ~ 0.65																
94	504	1.7386	S 50400	-	-	≤0.15	≤1.00	≤1.00	≤0.040	≤0.040	8.0 ~ 10.0	0.90 ~ 1.10																