



Stainless steel grade chart

Grade	UNS No.	Chemical analysis (%) specified								
		C	Si	Mn	P	S	Cr	Mo	Ni	Other
Austenitic stainless steels										
253MA	S30815	0.05 -0.10	1.1 - 2.0	0.8	0.040	0.030	20.0 - 22.0		10.0 - 12.0	N 0.14-0.20 Ce 0.03-0.08
301	S30100	0.15	0.75	2.0	0.045	0.030	16.0 - 18.0		6.0 - 8.0	N 0.10
302HQ	S30430	0.03	1.00	2.0	0.045	0.030	17.0 - 19.0		8.0 - 10.0	Cu 3.0-4.0
303	S30300	0.15	1.00	2.0	0.20	0.15	17.0 - 19.0		8.0 - 10.0	
304	S30400	0.08	0.75	2.0	0.045	0.030	18.0 - 20.0		8.0 - 10.5	N 0.10
304L	S30403	0.030	1.00	2.0	0.045	0.030	18.0 - 20.0		8.0 - 12.0	N 0.10
304H	S30409	0.04 - 0.10	0.75	2.0	0.045	0.030	18.0 - 20.0		8.0 - 10.5	N 0.10
309S	S30908	0.08	1.00	2.0	0.045	0.030	22.0 - 24.0		12.0 - 15.0	
310	S31000	0.25	1.5	2.0	0.045	0.030	24.0 - 26.0		19.0 - 22.0	
316	S31600	0.08	0.75	2.0	0.045	0.030	16.0 - 18.0	2.0 - 3.0	10.0 - 14.0	N 0.10
316L	S31603	0.030	0.75	2.0	0.045	0.030	16.0 - 18.0	2.0 - 3.0	10.0 - 14.0	N 0.10
317L	S31703	0.030	0.75	2.0	0.045	0.030	18.0 - 20.0	3.0 - 4.0	11.0 - 15.0	N 0.10
321	S32100	0.08	0.75	2.0	0.045	0.030	17.0 - 19.0		9.0 - 12.0	N 0.10 Ti=5x(C+N) min. 0.70 max.
347	S34700	0.08	0.75	2.0	0.045	0.030	17.0 - 19.0		9.0 - 13.0	Nb 10xC min. 1.0 1.0 max.
904L	N08904	0.020	1.00	2.0	0.045	0.035	19.0 - 23.0	4.0 - 5.0	23.0 - 28.0	Cu 1.0-2.0

Note 1: Single values are maxima unless otherwise stated.

Note 2: Hardness specification limits given are HRB = Rockwell B scale, HRC = Rockwell C scale, HB = Brinell Hardness.

Note 4: Mechanical properties shown are for the commonly available form listed; properties of other forms for the grade may vary.