

Stainless Steel Alloys Analysis Table

Grade AISI	UNS	Euro Norm En10088	C	Mn	P	S	Si	Cr	Ni	Mo	Other elements
			max	max	max	max	max				
304	S30400	1.4301	0.08	2	0.045	0.03	1.00	18-20	8-10.5	---	---
304L	S30403	1.4306	0.03	2	0.045	0.03	1.00	18-20	8-12	---	---
304H	S30409	1.4948	0.10	2	0.040	0.03	0.75	18-20	8-12	---	---
304N	S30451	1.4301	0.06	2	0.045	0.03	1.00	17-19	8-11	---	n=0.12-0.25
304LN	S30453	1.4311	0.03	2	0.045	0.03	0.75	17-19	8-12	---	n=0.12-0.25
309S	S30908	1.4828	0.08	2	0.045	0.03	0.75	22-24	12-15	---	---
310S	S31008	1.4845	0.08	2	0.045	0.03	1.50	24-26	19-22	---	---
316	S31600	1.4401	0.06	2	0.045	0.03	1.00	16-18.5	10.5-13.5	2-2.5	---
316H	S31609	1.4919	0.10	2	0.040	0.03	0.75	16-18	11-13.5	2-2.5	---
316L	S31603	1.4404	0.03	2	0.045	0.03	1.00	16-18.5	11-14	2-2.5	---
316LN	S31653	1.4406	0.03	2	0.045	0.03	1.00	16-18.5	11-14	2-2.5	n=0.12-0.25
316Ti	S31635	1.4571	0.08	2	0.045	0.03	1.00	16-18.5	10.5-13.5	2-2.5	Ti=5xcmin;0.8max
317	S31700	---	0.08	2	0.045	0.03	1.00	18-20	11-15	3-4	---
317L	S31703	1.4438	0.03	2	0.045	0.03	1.00	17.5-19.5	13-16.5	3-4	---
321	S32100	1.4541	0.08	2	0.045	0.03	1.00	17-19	9-12	---	Ti=5xcmin;0.6max
321H	S32109	1.4541	0.10	2	0.030	0.03	0.75	17-19	9-13	---	Ti=4xcmin;0.6max
347	S34700	1.455	0.08	2	0.045	0.03	1.00	17-19	9-13	---	Nb+Ta=10xcmin;1max
347H	S34709	1.4961	0.10	2	0.030	0.03	0.75	17-19	9-13	---	Nb+Ta=8xcmin;1max
409	S40900	1.4512	0.08	1	0.045	0.045	1.00	10.5-11.75	---	---	Ti=6xcmin;0.75max
410	S41000	1.4006	0.15	1	0.040	0.03	1.00	11.5-13.5	---	---	---
430	S43000	1.4016	0.12	1	0.040	0.03	1.00	16-18	---	---	---
2304 Duplex	S32304	1.4362	0.03	2.5	0.040	0.03	1.00	21.5-24.5	3-5.5	0.05-0.60	N0.05-0.20,Cu0.05-0.6
2205 Duplex	S31803	1.4462	0.03	2	0.030	0.02	1.00	21-23	4.5-6.5	2.5-3.5	N0.08-0.20
2507 S.Duplex	S32750	1.441	0.03	1.2	0.035	0.02	0.80	24-26	6-8	3-5	N0.24-0.32,Cu0.05max

Stainless Steel Alloys Specification Table

Grade AISI	Density g/cm3	Tensile Strength MPa	Yield Strength MPa	Elongation min%	Grade AISI	Density g/cm3	Tensile Strength MPa	Yield Strength MPa	Elongation min%
304	8	515	205	35	317	8	515	205	4-2
304L	8.0	485	170	35	317L	8.0	515	205	4-2
304H	8.0	515	205	35	321	8.0	515	205	4-2
304N	8.0	550	240	35	321H	8.0	515	205	4-2
304LN	8.0	515	205	35	347	8.0	515	205	4-2
309S	8.0	515	205	35	347H	8.0	515	205	4-2
310S	8.0	515	205	35	409	7.8	415	205	20-1
316	8.0	515	205	35	410	7.8	415	205	20-1
316H	8.0	515	205	35	430	7.8	415	240	20-1
316L	8.0	485	170	35	2304 Duplex	7.8	600	400	25-1
316LN	8.0	515	205	35	2205 Duplex	7.8	620	450	25-1
316Ti	8.0	485	170	35	2507 S.Duplex	7.8	795	550	15-1