

Stainless Steel Grades

Metallurgical or stainless steel “inox steel or inox known as” in French and “Inoxydable” word comes from. The amount of chromium present in stainless steel and carbon steel are very different. Carbon steel easily corrode when exposed to air or moisture. And this rust “iron oxide” accelerate corrosion. More than the amount of chromium in stainless steels in corrosive environments due to occur most frequently are the preferred materials. The main stainless steel grades are recorded in the table below.

PAS. ÇELİK SEÇENEKLERİ / STAINLESS STEEL OPTIONS					KİMYASAL ALAŞIM / NOMINAL CHEMICAL COMPOSITION					
ASTM	EN	DIN	SS	BS	C	N	Cr	Ni	Mo	Other
201	1.4372	-	-	284S16	0.05	0.15	17	5	-	Mn
S20910	-	-	-	-	0.05	0.30	22	13	2	Mn, Cb, V
301	1.4310	1.4310	2331	301S21	0.10	0.04	17	7	-	-
302	1.4319	1.4319	2332	302S31	0.07	0.06	17	8	-	-
303	1.4305	1.4305	2346	303S31	0.06	0.05	17.5	8.1	-	S
304	1.4301	1.4301	2333	304S31	0.04	0.06	18.2	8.1	-	-
304L	1.4306	1.4306	2352	304S11	0.02	0.06	18.2	8.2	-	-
304LN	1.4311	1.4311	2371	304S61	0.02	0.14	18.2	8.5	-	-
304N	1.6907	1.6907	-	304S71	0.04	0.14	18.5	8.5	-	-
305	1.4303	1.4303	-	305S19	0.02	0.02	18	11.5	-	-
S30880	1.4303	1.4303	-	-	0.08	-	19.5-22.0	9.0-11.0	0.75	0.30-0.65Si
308L	19 9 L	-	-	-	0.02	0.05	20	11	-	-
S30880	19 9LSi	-	-	-	0.03	-	19.5-22.0	9.0-11.0	0.50	0.65-1.00Si
316	1.4401	1.4401	2347	316S31	0.04	0.04	16.8	10.7	2	-
316	1.4436	1.4436	2343	316S33	0.04	0.06	17	11	2.8	-
S31609	1.4401/1.4919	-	-	-	0.04-0.10	-	16.0-18.0	10.0-14.0	2.0-3.0	-
316L	1.4404	1.4404	2348	316S11	0.02	0.06	16.2	10.2	2	-
316L	1.4432	1.4432	2353	316S13	0.02	0.06	16.2	10.2	2.8	-
316LN	1.4406	1.4406	-	316S61	0.02	0.14	16.2	10.2	2	-

316Ti	1.4571	1.4571	2350	320S31	0.04	0.01	17	11	2	Ti
317L	1.4438	1.4438	2367	317S12	0.02	0.08	18.3	11.5	3	-
317LM	1.4439	1.4439	-	-	0.02	0.08	19.3	13.7	4.3	-
317LMN	1.4439	1.4439	-	-	0.02	0.14	19.3	13.7	4.3	-
321	1.4541	1.4541	2337	321S31	0.04	0.01	17.3	9.2	-	Ti
347	1.4550	-	2338	347S31	0.04	0.04	17.3	9.1	-	Cb
N08020	-	-	-	-	0.01	0.06	20	33	2	Cu, Cb, Nb
904L	1.4539	1.4539	2562	904S13	0.01	0.06	20	25	4.5	Cu
S31254	1.4547	-	2378	-	0.01	0.20	20	18	6.1	Cu
S34565	1.4565	1.4565	-	-	0.02	0.45	24	17	4.5	Mn
S32101	1.4162	-	-	-	0.03	0.22	21.5	1.5	0.3	Mn
2304	1.4362	1.4362	2327	-	0.02	0.10	23	4.8	0.3	-
2205	1.4462	1.4462	2377	318S13	0.02	0.17	22	5.5	3	-
2507	1.4410	-	2328	-	0.02	0.27	25	7	4	-
410	1.4006	1.4006	2302	410S21	0.12	-	12	-	-	-
410S	1.4000	1.4000	2301	403S17	0.06	-	12	-	-	-
416	1.4005	1.4005	2380	416S21	0.12	-	12	-	-	S
430	1.4016	1.4016	2320	430S17	0.04	-	16.5	-	-	-
S43020	1.4104	1.4104	2383	-	0.12 max	-	16.0-18.0	-	-	0.15min
434	1.4113	-	-	-	0.06	-	17	-	1	-
439	1.4510	-	-	-	0.03	-	18	-	-	Nb, Ti
441	1.4509	1.4509	-	-	0.012	-	18	-	-	Ti
444	1.4521	1.4521	2326	-	0.02	0.02	17.8	-	2.1	Cu, Cb, Nb
630	1.4542	1.4542	-	-	0.04	-	15.3	4.8	-	Al
631	1.4568	1.4568	2388	-	0.05	-	16.3	7.0	-	-
304H	1.4948	1.4948	2333	304S51	0.05	0.06	18.2	8.1	-	Ti
321H	1.4878	1.4878	2337	321S51	0.05	0.01	17.3	9.2	-	Cb, Nb
S34709	1.4961	1.4961	2347	316 Sxx	0.04-0.10	-	17.0-20.0	9.0-13.0	-	-
S30909	-	-	-	-	0.04-0.10	-	22.0-24.0	12.0-16.0	-	-
309S	1.4833	1.4833	-	309S16	0.06	0.08	22.2	12.2	-	-
S31009	-	-	-	-	0.04-0.10	-	24.0-26.0	19.0-22.0	-	-
310S	1.4845	1.4845	2361	310S16	0.05	0.06	25.2	19.2	-	-
S30815	1.4835	1.4835	2368	-	0.09	0.17	21	11	-	Si, Ce