

The most common grades of stainless steel along with their chemical composition; SS&C, Chapter 8

EN	Structure	C %	Cr %	Ni %	Mo %	Si ≤ %	Mn ≤ %	S ≤ %	P ≤ %	Others	AISI (UNS)	SS
4003	Ferritic	≤ 0.03	10.5-12.5	0.30-1.00	-	1.00	1.50	0.015	0.040	N ≤ 0.030	410S	-
4016		≤ 0.08	16.0-18.0	-	-	1.00	1.00	0.015	0.040	-	430	2320
4113		≤ 0.08	16.0-18.0	-	0.90-1.40	1.00	1.00	0.030	0.040	-	434	-
4509		≤ 0.030	17.5-18.5	-	-	1.00	1.00	0.015	0.040	Ti 0.10-0.60; Nb 3xC+0.30-1.00	UNS 43932	-
4510		≤ 0.05	16.0-18.0	-	-	1.00	1.00	0.015	0.040	Ti 4x(C+N)+0.15– 0.80	430Ti	-
4512		≤ 0.03	10.5-12.5	-	-	1.00	1.00	0.015	0.040	Ti 6x(C+N)–0.65	409	-
4521		≤ 0.025	17.0-20.0	-	1.80-2.50	1.00	1.00	0.015	0.040	N ≤ 0.030; Ti 4(C+N)+0.15– 0.80	444	2326
4021	Martensitic	0.16-0.25	12.0-14.0	-	-	1.00	1.50	0.030	0.040	-	420	2303
4057		0.12-0.22	15.0-17.0	1.50-2.50	-	1.00	1.50	0.015	0.040	-	431	2321
4104		0.10-0.17	15.5-17.5	-	0.20-0.60	1.00	1.50	0.15-0.35	0.040	-	(430F)	2383
4301	Austenitic	≤ 0.07	17.5-19.5	8.00-10.5	-	1.00	2.00	0.015	0.045	N ≤ 0.11	304	2333
4305		≤ 0.10	17.0-19.0	8.00-10.0	-	1.00	2.00	0.15-0.35	0.045	Cu ≤ 1.00; N ≤ 0.11	303	2346
4306		≤ 0.030	18.0-20.0	10.0-12.0	-	1.00	2.00	0.015	0.045	N ≤ 0.11	304L	2352
4307		≤ 0.030	17.5-19.5	8.00-10.5	-	1.00	2.00	0.015	0.045	N ≤ 0.11	304L	-
4310		0.05-0.15	16.0-19.0	6.00-9.5	≤ 0.80	2.00	2.00	0.015	0.045	N ≤ 0.11	302	2331
4541		≤ 0.08	17.0-19.0	9.00-12.0	-	1.00	2.00	0.015	0.045	Ti (5xC)-0.70	321	2337
4401	Austenitic (acid resistant)	≤ 0.07	16.5-18.5	10.0-13.0	2.00-2.50	1.00	2.00	0.015	0.045	N ≤ 0.11	316	2347
4404		≤ 0.030	16.5-18.5	10.0-13.0	2.00-2.50	1.00	2.00	0.015	0.045	N ≤ 0.11	316L	2348
4418		≤ 0.06	15.0-17.0	4.00-6.00	0.80-1.50	0.70	1.50	0.015	0.040	N ≥ 0.020	-	2387
4432		≤ 0.030	16.5-18.5	10.5-13.0	2.50-3.00	1.00	2.00	0.015	0.045	N ≤ 0.11	316L	2353
4435		≤ 0.030	17.0-19.0	12.5-15.0	2.50-3.00	1.00	2.00	0.015	0.045	N ≤ 0.11	316L	2353
4436		≤ 0.07	16.5-18.5	10.5-13.0	2.50-3.00	1.00	2.00	0.015	0.045	N ≤ 0.11	316	2343
4571		≤ 0.08	16.5-18.5	10.5-13.5	2.00-2.50	1.00	2.00	0.015	0.045	Ti (5xC)-0.70	(316Ti)	2350
4828	Austenitic (heat resist)	≤ 0.20	19.0-21.0	11.0-13.0		1.50-2.50	≤ 2.00	0.015	0.045	N ≤ 0.11	309	
4841		≤ 0.20	24.0-26.0	19.0-22.0		1.50-2.50	≤ 2.00	0.015	0.045	N ≤ 0.11	314	
4845		≤ 0.10	24.0-26.0	19.0-22.0			≤ 1.50	≤ 2.00	0.015	0.045	N ≤ 0.11	-
4460	Duplex	≤ 0.05	25.0-28.0	4.50-6.50	1.30-2.00	1.00	2.00	0.015	0.035	N 0.05-0.20	329	2324
4462		≤ 0.030	21.0-23.0	4.50-6.50	2.50-3.50	1.00	2.00	0.015	0.035	N 0.10-0.22		2377

All alloying elements according to Stahlschlüssel, 2007 and EN 10088-2. Further information in **Stainless Steel and Corrosion, Chapter 8** (Claus Qvist Jessen; Damstahl 2011). All data are with respect to the EN numbers. The columns with "AISI" and "SS" show the nearest standard. In particular, the AISI system isn't easy to compare with the EN; regard the AISI - and SS designations as approximate.