

GRADES CHART

CMAX	Chemical Composition % Typical Values				Chemical Composition % Typical Values					Avesta	Swedish Steel Grades	
	Cr	Ni	Mo	Others	SS	DIN	ASTM	BS	NF	Avesta	Fagersta	Sandvik
0.15	17	4.5	-	Mn, M	-	-	201	284 S16	-	17-5N	R 522	-
0.15	16.5	7	-	-	2331	1.431	301	301 S21	Z12 CN 17-7	17-Jul	R 330	-
0.03	18.5	9.5	-	-	2352	1.4306	304L	304 S12	Z2 CN 18-10	18-10L	R 360	3R12
0.03	18.5	9.5	-	-	2352	1.4306	304L	304 S12	Z2 CN 18-10	18-10L	R 360	3R12
0.03	18.5	9.5	-	N	2371	1.4311	304LN	304 S62	Z2 CN 18-10 AZ	18-9LN	R 367	3R19
0.05	18.5	8.5	-	N	2371	1.4311	304LN	304 S62	Z2 CN 18-10 AZ	18-8	-	-
0.05	18.5	8.5	-	N	-	-	304N	304 S65	Z5 CN 18-09 AZ	18-8N	-	-
0.05	18.5	8.5	-	-	2333	1.4301	304	304 S15	Z5 CN 18-09	18-Sep	R 350	5R10
0.08	17.5	9.5	-	Ti	2337	1.4541	321	321 S12	Z6 CNT 18-10	18-10Ti	R 359	8R30
0.06	18.5	11.5	-	-	-	1.4303	305	305 S19	-	18-Dec	R 390	-
0.2	20	12	-	Si	-	1.4828	302B	-	Z15 CNS 20-12	20-12Si	R 323	-
0.08	25	20	-	-	2361	1.4845	310S	310 S24	Z12 CN 25-20	25-20	R 820	7RE10
0.06	18.5	9.5	-	Si, N, Ce	-	-	-	-	-	MVMA	-	-
0.1	21	11	-	Si, N, Ce	2368	1.4893	S30815	-	-	253 MA	-	253 MA
0.03	17	11	2.2	-	2348	1.4404	316L	316 S12	Z2 CND 17-22	17-11-2L	R 420	-
0.03	17.5	11	2.2	N	-	1.4406	316LN	316 S62	Z2 CND 17-12 AZ	17-11-2LN	-	-
0.05	17	11	2.2	-	2347	1.4401	316	316 S16	Z6 CND 17-11	17-11-2002	R 425	-
0.08	17	11	2.2	Ti	2350	1.4571	316Ti	320 S17	Z6 CNDT 17-22	17-11-2Ti	R 429	8R70
0.02	25	22	2.2	N	-	1.4465	-	-	-	725LN	-	2RE69
0.03	17.5	12	2.7	-	2353	1.4435	316L	316 S13	Z2 CND 17-13	17-22-2.5L	R 460	3R60
0.03	17.5	11.5	2.7	N	2375	1.4429	316LN	316 S82	Z2 CND 17-13 AZ	17-22-2.5LN	R 467	3R69
0.03	17.5	11	2.9	N	2375	1.4429	316LN	316 S62	Z2 CND 17-13 AZ	SKR-4	-	-
0.05	17	11	2.7	-	2343	1.4436	316	316 S33	Z6 CND 18-13	17-12-2.5	R 440	5R60
0.03	17.5	13.5	2.7	-	2353	1.4435	316L	316 S37	Z2 CND 17-13	724L	-	3R60UG
0.03	18.5	13.5	3.2	-	2367	1.4438	317L	317 S12	Z2 CND 19-15	18-13-3L	R 470	3R64
0.03	18.5	13.5	3.6	N	-	-	S31753	-	-	SNR-4	-	-
0.03	17	13	4.2	N	-	1.4439	S31726	-	-	17-14-4LN	-	-
0.02	20	25	4.5	Cu	2562	1.4539	N08904	-	Z1 NCDU 25-20	904L	R 840	2RK65
0.02	20	18	6.2	Cu, N	2378	-	S31254	-	-	254 SMO	-	254 SMO
0.03	25	5	1.5	-	2324	1.446	329	-	-	25-5-1L	R 640	10RE51
0.03	18.5	5	2.7	-	2376	1.4417	S31500	-	-	3RE60	-	3RE60
0.03	22	5.5	3	N	2377	1.4462	S31803	-	-	2205	R 647	SAF 2205