

Stainless Steel Chemical Analysis

A.I.S.I	DIN EN No.	B.S. 1449	UNS	SS	ANFOR	C MAX	Mn	P MAX	S MAX	Si MAX	Cr	Ni	Mo	Other
3CR12	1.4003	409 S1	S41003			0.03	2	0.04	0.015	1	10.5 - 12.5	0.3 - 1.5		
410S	1.4006		S41008			0.08	1	0.04	0.03	1	11.5 - 13.5	0.6		
409	1.4512	409 S19	S40900		Z 6 CT 12	0.03	1	0.04	0.02	1	10.5 - 11.75	0.5		Ti=6x(C+N) max 0.5
430	1.4016	430 S17	S430000	2320	Z 8 C 17	0.12	1	0.04	0.03	1	16 - 18	0.75		Ti=0.2+4(C+N) min
439	1.4510		S43035			0.03	1	0.04	0.030	1	17 - 19			1.1 max
441	1.4509		S43940			0.03	1	0.04	0.015	1	17.5 - 18.5			Nb(3xC+0.3-1.0) Ti(0.1-0.6)
434			S43400			0.12	1	0.04	0.030	1	16 - 18		0.75 - 1.25	
436			S43600			0.12	1	0.04	0.030	1	16 - 18		0.75 - 1.25	Cb 5 x C min
444	1.4521		S44400			0.025	1	0.04	0.030	1	17.5 - 19.5	1	1.75 - 2.5	Ti:4x(C+N)+0.15 to 8
2001	1.4482		S32001			0.03	4-6	0.04	0.030	1	19.5 - 21.5	1 - 3	0.6	(CU: 1 max)
2304	1.4362		S32304			0.03	2-5	0.04	0.030	1	21.5 - 24.5	3 - 5.5	0.05 - 0.6	(CU 0.1 - 0.6)
LDX2101®	1.4162		S32101			0.04	4 - 6	0.04	0.03	1	21 - 22	1.35 - 1.7	0.1-0.8	(CU 0.1 - 0.8)
2205	1.4462	318 S13	S32205	2377	Z1 NCDU 22.05	0.03	2	0.03	0.02	1	22 - 23	4.5 - 6.5	3 - 3.5	
2507	1.4410		S32570	2328	Z3 CND 25.06	0.03	1-2	0.035	0.02	1	24 -26	6 - 8	3 - 5	Cu 0.5
201L	1.4371	284 S16	S20100			0.03	5.5-7.5	0.045	0.03	0.75	16 - 18	3.5 - 5.5		N ≤ 0.25
202	1.4373		S20200			0.15	6.5-8	0.060	0.03	1	17 - 19	4 - 6		N ≤ 0.25
301	1.4310	301 S21	S30100	2331	Z10 CN 18.09	0.15	2	0.045	0.03	1	16 - 18	6 - 8		N ≤ 0.10
302	1.4325		S30200		Z10 CNF 18.09	0.15	2	0.045	0.03	0.75	17 - 19	8 - 10		N ≤ 0.10
303	1.4305	303 S31	S30300	2346		0.15	2	0.020	≥ 0.15	≤ 1.0	17 - 19	8 - 10	≤ 0.6	
304	1.4301	304 S15	S30400	2332	Z6 18.09	0.08	2	0.045	0.03	0.75	18 - 20	8 - 10.5		N ≤ 0.10
304L	1.4306	304 S11	S30403	2352	Z6 18.09	0.03	2	0.045	0.030	0.75	18 - 20	8 - 12		N ≤ 0.10
304DDQ	1.4301	304 S16			Z8 CN 18.12	0.08	2	0.045	0.03	0.75	18 - 20	10 - 10.5		N 0.10 - 0.16
304H	1.4948		S30409	2333		0.04-0.1	2	0.045	0.03	0.75	18 - 20	8 - 10.5		
305	1.4303	305 S19	S305		Z15 CN 24.13	0.12	2	0.045	0.03	0.75	17 - 19	10.5 - 13		
321	1.4541	321 S31	S32100	2324	Z6 CNT 18.10	0.08	2	0.045	0.03	0.75	17 - 19	9 - 12		Ti≥5X(C+N) ≤ 0.7
329	1.4460		S32900	2328		0.08	1	0.04	0.03	1	23 - 28	2.5 - 5.0	1 - 2	
316	1.4401	316 S33	S316000	2347	Z6 CN 17.11	0.08	2	0.045	0.03	0.75	16 - 18	10 - 14	2 - 3	
316L	1.4435	316 S13	S31603	2353	Z2 CN 17.13	0.03	2	0.045	0.03	0.75	16 - 18	10 - 14	2 - 3	
316LXK	1.4573	320 S33		2367		0.8	2	0.045	0.03	1	16.5 - 18.5	11.5 - 14.5	2.5 - 3	Ti5C/0.8
316Ti	1.4571	320 S31	S31605		Z6 CNDT 17.12	0.08	2	0.045	0.03	0.75	16 - 18	10 - 14	2 - 3	Ti≥5x(C+N) ≤ 0.7
316H	1.4919		S31609	2350		0.04-0.1	2	0.045	0.03	0.75	16 - 18	10 - 14	2 - 3	
317L	1.4438	317 S12	S31703	2337	Z2 CD 19.15	0.03	2	0.045	0.03	0.75	18 - 20	11 - 15	3 - 4	N ≤ 0.10
309	1.4828		S30900		Z12 CNS 20.12	0.2	2	0.045	0.03	1	22 - 24	12 - 15		
309S	1.4833	309 S24	S30908			0.08	2	0.045	0.03	0.75	22 - 24	12 - 15		
310	1.4841	310 S24	S3100		Z12 CN 25.20	0.25	2	0.045	0.03	1.5	24 - 26	19 - 22		
310S	1.4845	310 S24	S31008	2361	Z12 CN 25.20	0.08	2	0.045	0.015	0.75	24 - 26	19 - 22		
904L	1.4539	904 S13	N08904	2562	Z1NCDU 25.2	0.02	2	0.045	0.035	1	19 - 23	23 - 28	4 - 5	(CU 1-2)