

Material range

	Standard					Chemical Analysis (indicative values %)						Mechanical properties				
	Euronorm	USA	Germany	France	Japan	C	Cr	Ni	Mo	N	Others	Tensile strength MPa (min)	Yield strength MPa (min)	Elongation in % (min)	Hardness HV (Max)	
Austenitic	Mo < 0.3	1.4301 X5 Cr Ni 18.10	304 (H)	1.4301	Z7 CN 18.09	SUS 304	<0.070	18.5	9	-	-	205	520	45	150/210	
		1.4307 X2 Cr Ni 18.9	304 L	-	Z3 CN 19.09	SUS 304 L	<0.030	18.5	9	-	-	200	500	45	150/210	
		1.4306 X2 Cr Ni 19.11	-	1.4306	Z3 CN 18.10	-	<0.030	18.5	10.5	-	-	200	500	45	150/210	
		1.4541 X6 Cr Ni Ti 18.10	321	1.4541	Z6 CNT 18.10	SUS 321	<0.080	17.5	9.5	-	-	Ti>5(C+N)	205	530	40	150/220
		1.4550 X6 Cr Ni Nb 18.10	347	1.4550	Z6 CN Nb 18.10	SUS 347	<0.080	17.5	9.5	-	-	Nb/Cb>8C	205	530	40	150/220
		1.4315 X5 Cr Ni N 19.9	304 N	1.4315	Z6 CN 19.09 Az	SUS 304 N1	<0.060	18.5	8.5	-	0.17	-	290	590	40	160/220
		1.4311 X2 Cr Ni N 18.10	304 LN	1.4311	Z3 CN 18.10 Az	SUS 304 LN	<0.030	18.5	9.5	-	0.15	-	270	570	45	160/220
	2 < Mo < 2.5	1.4401 X5 Cr Ni Mo 17.12.2	316 (H)	1.4401	Z7 CND 17.11.02	SUS 316	<0.070	17	10.5	2.1	-	-	220	530	45	155/215
		1.4404 X2 Cr Ni Mo 17.12.2	316 L	1.4404	Z3 CND 17.11.02	SUS 316 L	<0.030	17	11.5	2.1	-	-	225	520	45	155/215
		1.4571 X6 Cr Ni Mo Ti 17.12.2	316 Ti	1.4571	Z6 CNDT 17.12	SUS 316 Ti	<0.080	17	11	2.1	-	Ti ≥ 5 (C+N)	225	550	40	155/225
		1.4580 X6 Cr Ni Mo Nb 17.12.2	316 Cb	1.4580	Z6 CND Nb 17.12	-	<0.080	17	11	2.1	-	Nb/Cb ≥ 10C	225	560	40	155/225
	2.5 < Mo < 3	1.4436 X3 Cr Ni Mo 17.13.3	316 Mo	1.4436	Z6 CND 18.12.03	-	<0.050	17	11.5	2.6	-	-	230	520	45	155/220
		1.4432 X2 Cr Ni Mo 17.12.3	316 L Mo	1.4432	Z3 CND 17.13.03	-	<0.030	17	11.5	2.6	-	-	230	520	45	155/220
		1.4435 X2 Cr Ni Mo 18.14.3	316 L Mo	1.4435	Z3 CND 18.14.03	-	<0.030	17.5	13	2.6	-	-	230	520	45	155/220
1.4429 X2 Cr Ni Mo N 17.13.3		316 LN	1.4429	Z3 CND 17.12 Az	SUS 316 LN	<0.030	17.5	11.5	2.6	0.15	-	250	590	40	155/220	
Mo > 3	1.4438 X2 Cr Ni Mo 18.15.4	317 L	1.4438	Z3 CND 19.15.04	SUS 317 L	<0.030	18.5	14	3.2	-	-	240	520	40	160/225	
	1.4434 X2 Cr Ni Mo N 18.12.4	317 LN	-	Z3 CND 19.14.Az	SUS 317 LN	<0.030	18.5	13	3.5	0.15	-	270	580	40	160/225	
	1.4435 X2 Cr Ni Mo N 17.13.5	317 LNM	1.4439	Z3 CND 18.14.05 Az	-	<0.030	18	14	4.2	0.15	-	290	580	40	160/225	
Austenitic Ferritic duplex	1.4362 X2 Cr Ni 23-4	S 32304	14362	Z3 CN 23.04 Az	-	<0.030	23	4	-	0.10	-	400	600	25	170/290	
	1.4462 X2 Cr Ni Mo N 22-5-3	S 31803	1.4462	Z3 CND 22.05 Az	SUS 329J3L	<0.030	22	5.3	2.8	0.16	-	480	680	25	190/290	
	1.4462 X2 Cr Ni Mo N 22-5-3	S 31803/S 32205	1.4462	Z3 CND 22.05 Az	-	<0.030	22.5	6	3.1	0.17	-	480	680	25	190/290	
	1.4462 X2 Cr Ni Mo N 22-5-3	S 31803/S 32205	1.4462	Z3 CND 22.05 Az	-	<0.030	22.6	6	3.3	0.18	-	500	700	25	190/290	
	1.4410 X2 Cr Ni Mo N 25-7-4	S 32750	-	Z3 CND 25.06 Az	-	<0.030	25	7	3.5	0.25	-	550	760	25	210/290	
	1.4507 X2 Cr Ni Mo Cu N 25.6.3	S 32550/S 32520	-	Z3 CNDU 25.07 Az	-	<0.030	25	7	3.5	0.25	0.5 < Cu < 2	550	760	25	210/290	
1.4501 X2 Cr Ni Mo Cu W N 25.7.4	S 32760	-	-	-	<0.030	25	7	3.5	0.22	Cu=0.6 W=0.6	550	760	25	210/290		
Super austenitic	1.4539 X1 Ni Cr Mo Cu 25.20.5	N 08 904	1.4539	Z2 NCDU 25.20	SUS 317J5L	<0.020	20	25	4.3	0.13	Cu = 1.5	245	550	40	160/220	
	1.4547 X1 Cr Ni Mo Cu N 20.18.7	S 31254	-	-	-	<0.030	20	18	6	0.20	Cu : 0.5-1.00	300	650	35	160/220	
	1.4529 X1 Ni Cr Mo Cu N 25.20.7	N08 925/926	1.4529	(Z2 NCDU 25.20.06 Az)	-	<0.020	20	25	6.2	0.20	Cu = 1	320	650	40	160/220	
	1.4565 X1 Cr Ni Mo Mn N 24.17.5	S 34565	1.4565 (S)	Z2 CNMD 23.17.6 Az	-	<0.030	24	17	4.5	0.40	Nb/Cb < 0.2 Mn = 4.5	420	650	40	200/260	
	(Type X1 Cr Ni Mo Mn Cu 24.22.6.3)	S 31266	-	Z2 CNDWU 24.22.06 Az	-	<0.025	24	22	6	0.40	Mn = 3 Cu = 1.5 W = 2	420	750	50	200/260	
1.4563 X1 Ni Cr Mo Cu 31.27.4	N 08 028	1.4563	Z2 NCDU 31.27.03	-	<0.020	27	31	3.5	-	Cu = 1	220	500	40	160/220		
Heat resistant alloys	1.4828 X15 Cr Ni Si 20-12	(302 B)	1.4828	Z17 CNS 20.12	-	<0.100	20	12	-	-	Si = 1.8	245	540	40	160/220	
	1.4835 X9 Cr Ni Si N Ce 21.11.2	S 30815	1.4893	-	-	<0.100	21	11	-	0.17	Si = 1.7 REM > 0.03 (Ce)	350	650	40	160/220	
	1.4833 X12 Cr Ni 23.13	309 S	1.4833	Z15 CN 23.13	SUS 309 S	<0.080	23	13	-	-	-	245	540	40	160/220	
	1.4845 X8 Cr Ni 25.21	310 S	1.4845	Z8 CN 25.20	SUS 310 S	<0.080	25	20	-	-	Si = 0.6	245	540	40	160/220	
	1.4841 X15 Cr Ni Si 25.21	314	1.4841	Z15 CNS 25.20	-	<0.100	25	20	-	-	Si = 1.8	245	550	40	160/220	
	1.4876 X10 Ni Cr Al Ti 32.21	N 08800/810/811	1.4876	Z8 CN 33.21	-	<0.100	21	32	-	-	Al = 0.4 Ti = 0.4	175	490	30	160/220	
-	N 06600	2.4816	NC Fe	-	<0.080	16	Bal.	-	-	Fe = 8	205	550	35	-		
Nickel based alloys	-	N 08825	2.4858	Ni Cr 21 Mo 3 Cu 2	-	<0.020	22	41	3	-	Cu = 2 Ti < 1	240	580	30	170/220	
	-	N 06625	2.4856	Ni Cr 21 Mo 9 Nb 4	-	<0.030	21.5	60	9	-	Nb/Cb = 3.5	280	690	40	190/280	
	-	N 06022	2.4602	-	-	<0.015	21.5	Bal.	13.5	-	Fe = 4 W = 3	360	760	50	250/320	
	-	N 10276	2.4819	-	-	<0.010	15.5	Bal.	16	-	Fe = 5 W = 3	360	760	50	250/320	