



Chemical composition (cast analysis) ⁽¹⁾⁽⁷⁾ of stainless steel flat products												
EN Number Designation	EN Designation	Designation AISI/ASTM	C	Si	Mn	P max	S	N	Cr	Mo	Ni	Others
X12CrMnNi17-7-5	1.4372	201	≤0.15	≤1.00	5.50 to 7.50	0.045	≤0.015	0.05 to 0.25	16.00 to 18.00		3.50 to 5.50	
X12CrMnNi18-9-5	1.4373	202	≤0.15	≤1.00	7.50 to 10.50	0.045	≤0.015	0.05 to 0.25	17.00 to 19.00		4.00 to 6.00	
X2CrMnNi17-7-5	1.4371		≤0.030	≤1.00	6.00 to 8.00	0.045	≤0.015	0.15 to 0.20	16.00 to 17.00		3.50 to 5.50	
X8CrMnCuNi17-8-3 ⁽⁹⁾	1.4597 ⁽⁹⁾		≤0.10	≤2.00	6.50 to 8.50	0.040	≤0.030	0.15 to 0.30	16.00 to 18.00	≤1.00	≤2.00	Cu:2.00 to 3.50; B: 0.0005 to 0.0050
X11CrNiMn19-9-6	1.4369		0.07 to 0.15	0.50 to 1.00	5.00 to 7.50	0.030	≤0.015	0.20 to 0.30	17.50 to 19.50		6.50 to 8.50	
X10CrNi18-8	1.4310	301	0.05 to 0.15	≤2.00	≤2.00	0.045	≤0.015	≤0.11	16.00 to 19.00	≤0.80	6.00 to 9.50	
X6CrNi17-7	1.4319	301 L ⁽⁸⁾	≤0.030	≤1.00	≤2.00	0.045	≤0.030	≤0.20	16.00 to 18.00		6.00 to 8.00	
X2CrNi18-7	1.4318	301 LN	≤0.030	≤1.00	≤2.00	0.045	≤0.030	≤0.11	16.00 to 18.00		6.00 to 8.00	
X6CrNi18-10	1.4307	302 ⁽⁸⁾	≤0.15	≤0.75	≤2.00	0.045	≤0.030	≤0.10	17.00 to 19.00		8.00 to 10.00	
X6CrNi18-9 ⁽⁹⁾	1.4305 ⁽⁹⁾	304	≤0.10	≤1.00	≤2.00	0.045	0.15 to 0.35	≤0.11	17.50 to 19.50		8.00 to 10.50	
X6CrNi18-10 ⁽⁹⁾	1.4301	304 LN	≤0.030	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	≤0.11	17.50 to 19.50		8.50 to 11.50	
X2CrNi18-10	1.4311	304 LN	0.04 to 0.08	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	0.12 to 0.22	17.50 to 19.50		8.00 to 10.50	
X6CrNi18-9	1.4308	304 H	≤0.030	≤1.00	≤2.00	0.035	≤0.015 ⁽²⁾	≤0.11	17.50 to 19.50		8.00 to 11.00	
X2CrNi18-11	1.4306	304 L	≤0.030	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	≤0.11	17.50 to 19.50		8.00 to 10.50	
X6CrNi19-11	1.4309	304 N	≤0.030	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	≤0.11	18.00 to 20.00		10.00 to 12.00	
X6CrNi19-9	1.4315	304 N	≤0.06	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	0.12 to 0.22	18.00 to 20.00		8.00 to 11.00	
X4CrNi18-12	1.4303	305	≤0.06	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	≤0.11	17.00 to 19.00		11.00 to 13.00	
X15CrNiSi20-12	1.4828		≤0.20	1.50 to 2.50	≤2.00	0.045	≤0.015	≤0.11	19.00 to 21.00		11.00 to 13.00	
X12CrNi23-13	1.4833	309 S	≤0.15	≤1.00	≤2.00	0.045	≤0.015	≤0.11	22.00 to 24.00		12.00 to 14.00	
X8CrNi25-21	1.4845	310 S	≤0.10	≤1.50	≤2.00	0.045	≤0.015	≤0.11	24.00 to 26.00		19.00 to 22.00	
X15CrNiSi25-21	1.4841	314	≤0.20	1.50 to 2.50	≤2.00	0.045	≤0.015	≤0.11	24.00 to 26.00		19.00 to 22.00	
X6CrNiMo17-12-2	1.4401	316	≤0.07	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	≤0.11	16.50 to 18.50	2.00 to 2.50	10.00 to 13.00	
X3CrNiMo17-13-3	1.4436	316	≤0.05	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	≤0.11	16.50 to 18.50	2.50 to 3.00	10.50 to 13.00	
X2CrNiMo17-12-2	1.4400	316 N ⁽⁸⁾	≤0.08	≤0.75	≤2.00	0.045	≤0.030	0.10 to 0.16	16.00 to 18.00	2.00 to 3.00	10.00 to 14.00	
X2CrNiMo17-12-2	1.4404	316 H ⁽⁸⁾	0.04 to 0.10	≤0.75	≤2.00	0.045	≤0.030	≤0.11	16.00 to 18.00	2.00 to 3.00	10.00 to 14.00	
X2CrNiMo18-14-3	1.4435	316 L	≤0.030	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	≤0.11	16.50 to 18.50	2.00 to 2.50	10.00 to 13.00	
X2CrNiMo17-12-3	1.4432	316 L	≤0.030	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	≤0.11	17.00 to 19.00	2.50 to 3.00	12.50 to 15.00	
X2CrNiMo17-11-2	1.4406	316 LN	≤0.030	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	≤0.11	16.50 to 18.50	2.50 to 3.00	10.50 to 13.00	
X2CrNiMo17-13-3	1.4429	316 LN	≤0.030	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	0.12 to 0.22	16.50 to 18.50	2.00 to 2.50	10.00 to 12.50	
X6CrNiMoTi17-12-2	1.4571	316 Ti	≤0.08	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	0.12 to 0.22	16.50 to 18.50	2.50 to 3.00	11.00 to 14.00	
X6CrNiMoNb17-12-2	1.4580	316 Cr	≤0.08	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	≤0.11	16.50 to 18.50	2.00 to 2.50	10.50 to 13.50	Ti:5 x C to 0.70
X2CrNiMo18-15-4	1.4438	317	≤0.06	≤0.75	≤2.00	0.045	≤0.030	≤0.10	18.00 to 20.00	3.00 to 4.00	11.00 to 15.00	Nb:10 x C to 1.00
X2CrNiMo18-12-4	1.4434	317 LN	≤0.030	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	≤0.11	17.50 to 19.50	3.00 to 4.00	13.00 to 16.00	
X2CrNiMo17-13-5	1.4439	317 LWN	≤0.030	≤1.00	≤2.00	0.045	≤0.015	0.10 to 0.20	16.50 to 19.50	3.00 to 4.00	10.50 to 14.00	
X6CrNiTi18-10	1.4541	321	≤0.08	≤1.00	≤2.00	0.045	≤0.015 ⁽²⁾	0.12 to 0.22	16.50 to 18.50	4.00 to 5.00	12.50 to 14.50	
X6CrNiTi18-10	1.4878	321H	≤0.10	≤1.00	≤2.00	0.045	≤0.015	≤0.11	17.00 to 19.00		9.00 to 12.00	Ti:5 x C to 0.70
X6CrNiNb18-10	1.4550	347	≤0.08	≤1.00	≤2.00	0.045	≤0.015	≤0.11	17.00 to 19.00		9.00 to 12.00	Ti:5 x C to 0.60
X1CrNi25-21	1.4335	347 H ⁽⁸⁾	0.04 to 0.10	≤1.00	≤2.00	0.045	≤0.015	≤0.11	17.00 to 19.00		9.00 to 12.00	Nb:8 x C to 1.00
X1CrNiMo25-22-2	1.4466	310 MoLN	≤0.020	≤0.25	≤2.00	0.025	≤0.010	0.10 to 0.16	24.00 to 26.00	≤0.20	20.00 to 22.00	
X1NiCrMoCu31-27-4	1.4361		≤0.15	3.70 to 4.50	≤2.00	0.025	≤0.010	≤0.11	16.50 to 18.50	≤0.20	14.00 to 16.00	
X1NiCrMoCu25-20-5	1.4563		≤0.020	≤0.70	≤2.00	0.030	≤0.010	≤0.11	26.00 to 28.00	3.00 to 4.00	30.00 to 32.00	Cu:0.70 to 1.50
X1NiCrMoCu20-18-7	1.4539	904 L	≤0.020	≤0.70	≤2.00	0.030	≤0.010	0.17 to 0.25	24.00 to 26.00	4.70 to 5.70	24.00 to 27.00	Cu:1.00 to 2.00
X1CrNiMoCuN24-22-8 ⁽⁸⁾	1.4652 ⁽⁸⁾		≤0.020	≤0.50	2.00 to 4.00	0.030	≤0.010	≤0.15	19.00 to 21.00	4.00 to 4.00	24.00 to 26.00	Cu:1.20 to 2.00
X1CrNiMoCuNiW24-22-6	1.4659		≤0.020	≤0.70	2.00 to 4.00	0.030	≤0.010	0.18 to 0.25	19.50 to 20.50	6.00 to 7.00	17.50 to 18.50	Cu:0.50 to 1.00
X1NiCrMoCuNi25-20-7	1.4529		≤0.020	≤0.50	2.00 to 4.00	0.030	≤0.010	0.45 to 0.55	23.00 to 25.00	7.00 to 8.00	21.00 to 23.00	Cu:0.30 to 0.60
X2CrNiMoNi25-19-6-5	1.4655		≤0.030	≤1.00	5.00 to 7.00	0.030	≤0.010	0.15 to 0.25	19.00 to 21.00	6.00 to 7.00	24.00 to 26.00	Cu:1.00 to 2.00; W: 1.50 to 2.50
X6CrNiSi25-16	1.4864	330	≤0.015	1.00 to 2.00	≤2.00	0.045	≤0.015	0.30 to 0.60	24.00 to 26.00	4.00 to 5.00	16.00 to 19.00	
X6CrNiSi25-16	1.4835		0.05 to 0.12	1.40 to 2.50	≤1.00	0.045	≤0.015	≤0.11	15.00 to 17.00		33.00 to 37.00	
X1CrNiAlTi32-21	1.4876		≤0.12	≤0.30	≤2.00	0.030	≤0.015	0.12 to 0.20	19.00 to 23.00		10.00 to 12.00	Ce:0.03 to 0.08
X6CrNiNb32-27	1.4877		0.04 to 0.08	≤0.30	≤1.00	0.020	≤0.010	≤0.11	26.00 to 28.00		30.00 to 34.00	Al:0.15 to 0.60; Ti:0.15 to 0.60
X6CrNiSiAl19-10	1.4818		0.04 to 0.08	1.00 to 2.00	≤1.00	0.045	≤0.015	0.12 to 0.20	18.00 to 20.00		31.00 to 33.00	Al:0.025; Ce:0.05 to 0.10; Nb:0.60 to 1.00
X6CrNiSiAl35-25 ⁽⁹⁾	1.4854 ⁽⁹⁾		0.04 to 0.08	1.20 to 2.00	≤2.00	0.040	≤0.015	0.12 to 0.20	24.00 to 26.00		34.00 to 36.00	Ce:0.03 to 0.08