

### III Chemical composition

Chemical composition of austenitic stainless steels

Description		Amount in %								
Abbreviation	Material number	C	Si max	Mn max	P max	S	Cr	Mo	Ni	Other
X5CrNi18-10	1.4301	≤ 0.07	1.00	2.00	0.045	≤ 0.030	17.00 to 19.50		8.00 to 10.50	N: ≤ 0.11
X4CrNi18-12	1.4303	≤ 0.06	1.00	2.00	0.045	≤ 0.030	17.00 to 19.00		11.00 to 13.00	N: ≤ 0.11
X8CrNiS18-9	1.4305	≤ 0.10	1.00	2.00	0.045	0.15 to 0.35	17.00 to 19.00		8.00 to 10.00	N: ≤ 0.11; Cu ≤ 1.00
X2CrNi19-11	1.4306	≤ 0.030	1.00	2.00	0.045	≤ 0.030	18.00 to 20.00		10.00 to 12.00	N: ≤ 0.11
X2CrNi18-9	1.4307	≤ 0.030	1.00	2.00	0.045	≤ 0.030	17.50 to 19.50		8.00 to 10.00	N: ≤ 0.11
X10CrNi18-8	1.4310	0.05 to 0.15	2.00	2.00	0.045	< 0.015	16.00 to 19.00	≤ 0.80	6.00 to 9.50	
X6CrNiTi18-10	1.4541	≤ 0.08	1.00	2.00	0.045	< 0.030	17.00 to 19.00		9.00 to 12.00	Ti: 5 x C to 0.70
X6CrNiNb18-10	1.4550	≤ 0.08	1.00	2.00	0.045	< 0.015	17.00 to 19.00		9.00 to 12.00	Nb: 10 x C to 1.00
X5CrNiMo17-12-2	1.4401	≤ 0.07	1.00	2.00	0.045	≤ 0.030	16.50 to 18.50	2.00 to 2.50	10.00 to 13.00	N: ≤ 0.11
X2CrNiMo17-12-2	1.4404	≤ 0.030	1.00	2.00	0.045	≤ 0.030	16.50 to 18.50	2.00 to 2.50	10.00 to 13.00	N: ≤ 0.11
X2CrNiMoN17-11-2	1.4406	≤ 0.030	1.00	2.00	0.045	≤ 0.030	16.50 to 18.50	2.00 to 2.50	10.00 to 12.00	N: 0.12 to 0.22
X6CrNiMoTi17-12-2	1.4571	≤ 0.08	1.00	2.00	0.045	≤ 0.030	16.50 to 18.50	2.00 to 2.50	10.50 to 13.50	Ti: 5 x C to 0.70
X6CrNiMoNb17-12-2	1.4580	≤ 0.08	1.00	2.00	0.045	< 0.015	16.50 to 18.50	2.00 to 2.50	10.50 to 13.50	Nb: 10 x C to 1.00
X2CrNiMo18-14-3	1.4435	≤ 0.030	1.00	2.00	0.045	≤ 0.030	17.00 to 19.00	2.50 to 3.00	12.50 to 15.00	N: ≤ 0.11
X3CrNiMo17-13-3	1.4436	≤ 0.05	1.00	2.00	0.045	≤ 0.030	16.50 to 18.50	2.50 to 3.00	10.50 to 13.00	N: ≤ 0.11
X2CrNiMoN17-13-5	1.4439	≤ 0.030	1.00	2.00	0.045	< 0.015	16.50 to 18.50	4.00 to 5.00	12.50 to 14.50	N: 0.12 to 0.22

Chemical composition of ferritic and martensitic stainless steels

Description		Amount in %								
Abbreviation	Material number	C	Si max	Mn max	P max	S	Cr	Mo	Ni	Other
X6Cr17	1.4016	≤ 0.08	1.00	1.00	0.040	≤ 0.030	16.00 to 18.00			
X20Cr13	1.4021	0.16 to 0.25	1.00	1.50	0.040	≤ 0.030	12.00 to 14.00			
X30Cr13	1.4028	0.26 to 0.35	1.00	1.50	0.040	≤ 0.030	12.00 to 14.00			
X46Cr13	1.4034	0.43 to 0.50	1.00	1.00	0.040	≤ 0.030	12.50 to 14.50			
X14CrMoS17	1.4104	0.10 to 0.17	1.00	1.50	0.040	0.15 to 0.35	15.50 to 17.50	0.20 to 0.60		
X6CrMoS17	1.4105	≤ 0.08	1.00	1.50	0.040	0.15 to 0.35	16.00 to 18.00	0.20 to 0.60		
X90CrMoV18	1.4112	0.85 to 0.95	1.00	1.00	0.040	≤ 0.020	17.00 to 19.00	0.90 to 1.30		V 0.07-0.12
X39CrMo17-1	1.4122	0.33 to 0.45	1.00	1.50	0.040	≤ 0.030	15.50 to 17.50	0.80 to 1.30	≤ 1.00	
X17CrNi16-2	1.4057	0.12 to 0.22	1.00	1.50	0.040	≤ 0.030	15.00 to 17.00		1.50 to 2.50	
X3CrNiMo13-4	1.4313	≤ 0.05	0.70	1.50	0.040	< 0.015	12.00 to 14.00	0.30 to 0.70	3.50 to 4.50	N: ≥ 0.020
X4CrNiMo16-5-1	1.4418	≤ 0.06	0.70	1.50	0.040	≤ 0.030	15.00 to 17.00	0.80 to 1.50	4.00 to 6.00	N: ≥ 0.020

[Statements about the properties or applications are provided as a description.]

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Chemical composition of austenitic – ferritic stainless steels (duplex grades)

Description		Amount in %								
Abbreviation	Material number	C	Si max	Mn max	P max	S	Cr	Mo	Ni	Other
X3CrNiMoN27-5-2	1.4460	0.05	1.00	2.00	0.035	0.030	25.00 to 28.00	1.30 to 2.00	4.50 to 6.50	N: 0.05 to 0.20
X2CrNiMoN22-5-3	1.4462	0.030	1.00	2.00	0.035	0.015	21.00 to 23.00	2.50 to 3.50	4.50 to 6.50	N: 0.10 to 0.22

Chemical composition of precipitation-hardening martensitic steel

Description		Amount in %								
Abbreviation	Material number	C	Si max	Mn max	P max	S	Cr	Mo	Ni	Other
X 5 CrNiCuNb 17 4	1.4542	≤ 0.06	≤ 0.6	≤ 1	≤ 0.030	0.015-0.025	15.00 to 16.50	≤ 0.5	4.00 to 5.00	Nb: ≥ 5xC max. 0.45 Cu 3-4

Chemical composition of heat-resistant ferritic steels

Description		Chemical composition / Standard values in %							Limiting temperature in air [°C]
Abbreviation	Material number	C	Si	Mn	Cr	Ni	Al	Ti:	°C
X10CrAl7 (AISI-)	1.4713	0.08	0.8	0.7	6.5		0.8		800
X10CrAl13 (AISI-)	1.4724	0.08	1.0	0.7	13.5		1.0		850
X10CrAl18 (AISI-)	1.4742	0.08	1.3	0.7	18.0		1.0		1000
X10CrAl24 (AISI-)	1.4762	0.08	1.4	0.7	24.0		1.5		1150

Chemical composition of heat-resistant austenitic steels

Description		Chemical composition / Standard values in %							Limiting temperature in air [°C]
Abbreviation	Material number	C	Si	Mn	Cr	Ni	Al	Ti:	°C
X15CrNiSi2012 (AISI~309)	1.4828	0.10	2.0	0.7	20.0	12.0			1000
X15CrNiSi2520 (AISI~310)	1.4841	0.10	2.0	0.7	25.0	20.0			1150
X12CrNiTi189 (AISI~321)	1.4878	0.06	0.4	1.7	18.0	10.0		0.5	850

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