
Nerjavna jekla - 1. del: Seznam nerjavnih jekel

Stainless steels - Part 1: List of stainless steels

Nichtrostende Stähle - Teil 1: Verzeichnis der nichtrostenden Stähle

Aciers inoxydables - Partie 1 : Liste des aciers inoxydables

Ta slovenski standard je istoveten z: prEN 10088-1

ICS:

77.140.20 Visokokakovostna jekla Stainless steels

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 10088-1

October 2026

ICS 77.140.20

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English Version

Stainless steels - Part 1: List of stainless steels

Aciers inoxydables - Partie 1 : Liste des aciers
inoxydables

Nichtrostende Stähle - Teil 1: Verzeichnis der
nichtrostenden Stähle

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 459/SC 13.

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Contents	Page
European foreword	3
Introduction	4
1 Scope.....	5
2 Normative references.....	6
3 Terms and definitions	6
4 Chemical composition	6
Annex A (informative) Designation of ISO stainless steels and of comparable grades covered in various designation systems listed according to the European Standards system	24
Annex B (informative) Matrix to show which steels are included in which European Standard	38
Annex C (informative) Classification of stainless steel grades.....	50
Annex D (informative) Empirical formulae for steel grade microstructure classification and pitting resistance ranking	54
Annex E (informative) Guidance data on some physical properties	56
Annex F (informative) Chemical composition of nickel and cobalt alloys listed in EN 10095, EN 10269 and EN 10302	71
Bibliography	74

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European foreword

This document (prEN 10088-1:2026) has been prepared by Technical Committee CEN/TC 459 “ECISS - European Committee for Iron and Steel Standardization¹”, the secretariat of which is held by AFNOR.

This document will supersede EN 10088-1:2023.

prEN 10088-1:2026 includes the following significant technical changes with respect to EN 10088-1:2023:

- change in composition of ferritic grade 1.4106 (part 3)

The EN 10088 series, under the general title *Stainless steels*, consists of the following parts:

- *Part 1: List of stainless steels;*
- *Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resistant steels for general purposes;*
- *Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion steels for general purposes;*
- *Part 4: Technical delivery conditions for sheet/plate and strip of corrosion steels for construction purposes;*
- *Part 5: Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion steels for construction purposes.*

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¹ Through its sub-committee SC 13 “Stainless steels”, (secretariat: SIS).

Introduction

The European Committee for Standardization (CEN) draws attention to the fact that it is claimed that compliance with this document may involve the use of patents concerning ten steel grades, given in Clause 4, Annex A, Annex B and Annex E and which is claimed to be relevant for the following clause(s) of this document:

- Clause 4;
- Annex A;
- Annex B;
- Annex E.

CEN takes no position concerning the evidence, validity and scope of these patent rights. The holders of these patents right have assured CEN that they are willing to negotiate licences, under reasonable and non-discriminatory terms and conditions, with applicants throughout the world. In this respect, the statements of the holders of these patent rights are registered with CEN.

Information may be obtained from:

Grade 1.4662, 1.4637

Outokumpu Stainless AB
SE-77480 Avesta, Sweden

Grade 1.4420, 1.4622

Outokumpu Oyj
FI-00180, Helsinki, Salmisaarenranta 11, Finland

Grade 1.4062, 1.4669, 1.4670

Ugitech
F-73403 Ugine Cedex, France

Grade 1.4062, 1.4669

Industeel
F-71200 Creusot, 56 Rue Clemenceau, France

Grade 1.4646, 1.4611, 1.4613

Acciai Speciali Terni
I-05100 Terni, Italy

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. CEN shall not be held responsible for identifying any or all such patent rights.

1 Scope

This document lists the chemical composition of stainless steels, which are subdivided in accordance with their main properties into corrosion resistant steels, heat resistant steels and creep resistant steels (see Annex C) and specified in the European Standards given in Table 1.

Table 1 — Overview of material standards for stainless steels

Stainless steels		
Corrosion resistant steels	Heat resistant steels	Creep resistant steels
EN 10028-7		EN 10028-7
EN 10088-2		
EN 10088-3		
EN 10088-4		
EN 10088-5		
	EN 10095	
EN 10151		
EN 10216-5		EN 10216-5
EN 10217-7		
EN 10222-5		EN 10222-5
EN 10250-4		
EN 10263-5		
EN 10264-4	EN 10264-4	
EN 10269		EN 10269
EN ISO 6931-1		
EN 10272		
EN 10296-2		
EN 10297-2		
		EN 10302
EN 10312		
EN 10357		
EN 10378		

Reference data on some physical properties are given in Annex E, Tables E.1 to E.8.

Empirical formulae for steel grade microstructure classification and pitting resistance ranking are given in Annex D.

NOTE 1 A matrix that shows which steels are included in which standard is given in Annex B.

NOTE 2 General purposes include the use of stainless steels in contact with foodstuffs.

NOTE 3 Valve steels are specified in EN 10090.

prEN 10088-1:2026 (E)

NOTE 4 Steel castings are specified in various European Standards (see Bibliography).

NOTE 5 Tool steels are specified in EN ISO 4957.

NOTE 6 Welding consumables are specified in various European Standards (see Bibliography).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 10079, *Definition of steel products*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 10079 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1**stainless steel**

steel with at least 10,5 % of chromium and maximum 1,20 % of carbon

Note 1 to entry: Stainless steels are further subdivided in accordance with their main property into corrosion resistant steels, heat-resistant steels and creep resistant steels.

Note 2 to entry: One type of steel in Table 7 and five types of steel in Table 9 contain less chromium than the minimum defined for stainless steels, but are included in the heat-resistant and creep-resistant steels standards respectively, because they form a part of these two families of steels.

[SOURCE: EN 10020:2000, 3.2.2]

4 Chemical composition

The chemical composition of stainless steels is given:

- in Table 2 for austenitic corrosion resistant steels;
- in Table 3 for austenitic-ferritic corrosion resistant steels;
- in Table 4 for ferritic corrosion resistant steels;
- in Table 5 for martensitic and precipitation hardening corrosion resistant steels;
- in Table 6 for austenitic and austenitic-ferritic heat resistant steels;
- in Table 7 for ferritic heat resistant steels;
- in Table 8 for austenitic creep resistant steels;
- in Table 9 for martensitic creep resistant steels.

NOTE 1 The chemical composition of nickel and cobalt alloys listed in EN 10095, EN 10269 and EN 10302 is given in Annex F, Tables F.1 and F.2.

NOTE 2 Steels in this document and in EN 10088-2 and EN 10088-3 are listed according to a line number (see Annex A).

NOTE 3 The order of the elements listed in the tables of chemical composition is according to ISO 6306.

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Table 2 — Chemical composition (cast analysis) of austenitic corrosion resistant steels

Steel designation		% by mass ^a										
Name	Number	C	Si	Mn	P	S	Cr	Mo	Ni	N	Cu ^c	Others
Austenitic steels without minimum Mo content												
X2CrNiN18-7	1.4318	0,030	1,00	2,00	0,045	0,015	16,5 to 18,5	-	6,0 to 8,0	0,10 to 0,20	-	-
X4CrNiCu18-7	1.4382	0,05	1,00	2,00	0,045	0,015	17,0 to 19,0	-	6,0 to 8,0	0,05 to 0,15	0,50 to 2,00	-
X10CrNi18-8	1.4310	0,030 to 0,15	2,00	2,00	0,045	0,015	16,0 to 19,0	0,80	6,0 to 9,5	0,10	-	-
X2CrNi18-9	1.4307	0,030	1,00	2,00	0,045	0,015 ^b	17,5 to 19,5	-	8,0 to 10,5	0,10	-	-
X9CrNi18-9	1.4325	0,030 to 0,15	1,00	2,00	0,045	0,030	17,0 to 19,0	-	8,0 to 10,0	-	-	-
X8CrNiS18-9 ^e	1.4305 ^e	0,10	1,00	2,00	0,045	0,15 to 0,35	17,0 to 19,0	-	8,0 to 10,0	0,10	1,00	-
X6CrNiCuS18-9-2 ^e	1.4570 ^e	0,08	1,00	2,00	0,045	0,15 to 0,35	17,0 to 19,0	0,60	8,0 to 10,0	0,10	1,40 to 1,80 ^h	-
X3CrNiCu18-9-4	1.4567	0,04	1,00	2,00	0,045	0,015 ^b	17,0 to 19,0	-	8,5 to 10,5	0,10	3,00 to 4,0	-
X5CrNiN19-9	1.4315	0,06	1,00	2,00	0,045	0,015	18,0 to 20,0	-	8,0 to 11,0	0,12 to 0,22	-	-
X3CrNiCu19-9-2	1.4560	0,035	1,00	1,50 to 2,00	0,045	0,015	18,0 to 19,0	-	8,0 to 9,0	0,10	1,50 to 2,00	-
X5CrNiCu19-6-2	1.4640	0,030 to 0,08	0,50	1,50 to 4,0	0,045	0,015	18,0 to 19,0	-	5,5 to 6,9	0,030 to 0,11	1,30 to 2,00	-
X2CrNiN18-10	1.4311	0,030	1,00	2,00	0,045	0,015 ^b	17,5 to 19,5	-	8,5 to 11,5	0,12 to 0,22	-	-
X5CrNi18-10	1.4301	0,07	1,00	2,00	0,045	0,015 ^b	17,5 to 19,5	-	8,0 to 10,5	0,10	-	-
X2CrNiSi18-10	1.4682	0,03	0,80 to 2,0	2,00	0,045	0,015	17,5 to 19,5	0,40 to 0,80	9,0 to 11,0	0,10	-	-
X6CrNiTi18-10	1.4541	0,08	1,00	2,00	0,045	0,015 ^b	17,0 to 19,0	-	9,0 to 12,0 ^d	-	-	Ti: 5 × C to 0,70
X6CrNiNb18-10	1.4550	0,08	1,00	2,00	0,045	0,015	17,0 to 19,0	-	9,0 to 12,0 ^d	-	-	Nb: 10 × C to 1,00
X2CrNiCu19-10	1.4650	0,030	1,00	2,00	0,045	0,015	18,5 to 20,0	-	9,0 to 10,0	0,08	1,00	-
X2CrNi19-11	1.4306	0,030	1,00	2,00	0,045	0,015 ^b	18,0 to 20,0	-	10,0 to 12,0 ^d	0,10	-	-

Steel designation		% by mass ^a										
Name	Number	C	Si	Mn	P	S	Cr	Mo	Ni	N	Cu ^c	Others
X4CrNi18-12	1.4303	0,06	1,00	2,00	0,045	0,015 ^b	17,0 to 19,0	-	11,0 to 13,0	0,10	-	-
X1CrNiSi18-15-4	1.4361	0,015	3,7 to 4,5	2,00	0,025	0,010	16,5 to 18,5	0,20	14,0 to 16,0	0,10	-	-
X8CrMnCuN17-8-3	1.4597	0,10	2,00	6,5 to 9,0	0,040	0,030	15,0 to 18,0	1,00	3,00	0,10 to 0,30	2,00 to 3,5	-
X8CrMnNi19-6-3	1.4376	0,10	1,00	5,0 to 8,0	0,045	0,015	17,0 to 20,5		2,00 to 4,5	0,30	-	-
X3CrMnNiCu15-8-5-3	1.4615	0,030	1,00	7,0 to 9,0	0,040	0,010	14,0 to 16,0	0,80	4,5 to 6,0	0,02 to 0,06	2,0 to 4,0	-
X12CrMnNiN17-7-5	1.4372	0,15 ^f	1,00	5,5 to 7,5	0,045	0,015	16,0 to 18,0	-	3,5 to 5,5	0,05 to 0,25	-	-
X2CrMnNiN17-7-5	1.4371	0,030	1,00	6,0 to 8,0	0,045	0,015	16,0 to 17,5	-	3,5 to 5,5	0,15 to 0,25	1,00	-
X9CrMnNiCu17-8-5-2	1.4618	0,10	1,00	5,5 to 9,5	0,070	0,010	16,5 to 18,5	-	4,5 to 5,5	0,15	1,00 to 2,50	-
X30MnCrN16-14	1.4678	0,20 to 0,40	1,00	14,0 to 18,0	0,045	0,015	12,0 to 16,0	-	-	0,20 to 0,40	2,00	-
X12CrMnNiN18-9-5	1.4373	0,15	1,00	7,5 to 10,5	0,045	0,015	17,0 to 19,0	-	4,0 to 6,0	0,05 to 0,25	-	-
X8CrMnNiN18-9-5	1.4374	0,05 to 0,10	0,30 to 0,60	9,0 to 10,0	0,035	0,030	17,5 to 18,5	0,50	5,0 to 6,0	0,25 to 0,32	0,40	-
X11CrNiMnN19-8-6	1.4369	0,07 to 0,15	0,50 to 1,00	5,0 to 7,5	0,030	0,015	17,5 to 19,5	-	6,5 to 8,5	0,20 to 0,30	-	-
X13CrMnNiN18-13-2	1.4020	0,15	1,00	11,0 to 14,0	0,045	0,030	16,5 to 19,0	-	0,5 to 2,5	0,20 to 0,45	-	-
X6CrMnNiN18-13-3	1.4378	0,08	1,00	11,5 to 14,5	0,060	0,030	17,0 to 19,0	-	2,3 to 3,7	0,20 to 0,40	-	-
X6CrMnNiCuN18-12-4-2 *	1.4646 *	0,02 to 0,10	1,00	10,5 to 12,5	0,050	0,015	17,0 to 19,0	0,50	3,5 to 4,5	0,20 to 0,30	1,50 to 3,00	-
X3CrMnNiN20-9-6	1.4391	0,040	1,00	8,0-10,0	0,045	0,030	19,0 to 21,5	0,75	5,5 to 7,5	0,15 to 0,40	-	-
X1CrNi25-21	1.4335	0,020	0,25	2,00	0,025	0,010	24,0 to 26,0	0,20	20,0 to 22,0	0,10	-	-
Austenitic steels with Mo												
X2CrNiMoCuS17-10-2 ^e	1.4598 ^e	0,030	1,00	2,00	0,045	0,10 to 0,20	16,5 to 18,5	2,00 to 2,50	10,0 to 13,0	0,10	1,30 to 1,80	-
X3CrNiCuMo17-11-3-2	1.4578	0,04	1,00	2,00	0,045	0,015	16,5 to 17,5	2,00 to 2,50	10,0 to 11,0	0,10	3,0 to 3,5	-

prEN 10088-1:2026 (E)

Steel designation		% by mass ^a										
Name	Number	C	Si	Mn	P	S	Cr	Mo	Ni	N	Cu ^c	Others
X2CrNiMoN17-11-2	1.4406	0,030	1,00	2,00	0,045	0,015 ^b	16,5 to 18,5	2,00 to 2,50	10,0 to 12,5 d	0,12 to 0,22	-	-
X2CrNiMo17-12-2	1.4404	0,030	1,00	2,00	0,045	0,015 ^b	16,5 to 18,5	2,00 to 3,0	10,0 to 13,0 d	0,10	-	-
X5CrNiMo17-12-2	1.4401	0,07	1,00	2,00	0,045	0,015 ^b	16,5 to 18,5	2,00 to 2,50	10,0 to 13,0	0,10	-	-
X6CrNiMoTi17-12-2	1.4571	0,08	1,00	2,00	0,045	0,015 ^b	16,5 to 18,5	2,00 to 2,50	10,5 to 13,5 d	-	-	Ti: 5 × C to 0,70
X6CrNiMoNb17-12-2	1.4580	0,08	1,00	2,00	0,045	0,015	16,5 to 18,5	2,00 to 2,50	10,5 to 13,5	-	-	Nb: 10 × C to 1,00
X2CrNiMoN21-9-1 ^{*e}	1.4420 ^{*e}	0,030	1,00	2,00	0,045 g	0,015	19,5 to 21,5	0,50 to 1,50	8,0 to 9,5	0,14 to 0,25	1,00	-
X2CrNiMo17-12-3	1.4432	0,030	1,00	2,00	0,045	0,015 ^b	16,5 to 18,5	2,50 to 3,00	10,5 to 13,0	0,10	-	-
X3CrNiMo17-12-3	1.4436	0,05	1,00	2,00	0,045	0,015 ^b	16,5 to 18,5	2,50 to 3,00	10,5 to 13,0 d	0,10	-	-
X3CrNiMo18-12-3	1.4449	0,035	1,00	2,00	0,045	0,015	17,0 to 18,2	2,25 to 2,75	11,5 to 12,5	0,08	1,00	-
X2CrNiMoN17-13-3	1.4429	0,030	1,00	2,00	0,045	0,015	16,5 to 18,5	2,50 to 3,00	11,0 to 14,0 d	0,12 to 0,22	-	-
X2CrNiMoN18-12-4	1.4434	0,030	1,00	2,00	0,045	0,015	16,5 to 19,5	3,00 to 4,0	10,5 to 14,0 d	0,10 to 0,20	-	-
X2CrNiMo18-14-3	1.4435	0,030	1,00	2,00	0,045	0,015 ^b	17,0 to 19,0	2,50 to 3,00	12,5 to 15,0	0,10	-	-
X2CrNiMoN17-13-5	1.4439	0,030	1,00	2,00	0,045	0,015	16,5 to 18,5	4,0 to 5,0	12,5 to 14,5	0,12 to 0,22	-	-
X2CrNiMo18-15-4	1.4438	0,030	1,00	2,00	0,045	0,015 ^b	17,5 to 19,5	3,00 to 4,0	13,0 to 16,0 d	0,10	-	-
X5CrNiMnMoNNbV22-12-5-2	1.4681	0,060	1,00	4,0 to 6,0	0,045	0,030	20,5 to 23,5	1,5 to 3,0	11,5 to 13,5	0,20 to 0,40	-	Nb: 0,10 to 0,30 V: 0,10 to 0,30
X1CrNiMoCuN20-18-7	1.4547	0,020	0,70	1,00	0,030	0,010	19,5 to 20,5	6,0 to 7,0	17,5 to 18,5	0,18 to 0,25	0,50 to 1,00	-
X1CrNiMoN25-22-2	1.4466	0,020	0,70	2,00	0,025	0,010	24,0 to 26,0	2,00 to 2,50	21,0 to 23,0	0,10 to 0,16	-	-
X1CrNiMoCuNW24-22-6	1.4659	0,020	0,70	2,00 to 4,0	0,030	0,010	23,0 to 25,0	5,5 to 6,5	21,0 to 23,0	0,35 to 0,50	1,00 to 2,00	W: 1,50 to 2,50

Steel designation		% by mass ^a										
Name	Number	C	Si	Mn	P	S	Cr	Mo	Ni	N	Cu ^c	Others
X1CrNiMoCuN24-22-8	1.4652	0,020	0,50	2,00 to 4,0	0,030	0,005	23,0 to 25,0	7,0 to 8,0	21,0 to 23,0	0,45 to 0,55	0,30 to 0,60	-
X2CrNiMnMoN25-18-6-5	1.4565	0,030	1,00	5,0 to 7,0	0,030	0,015	24,0 to 26,0	4,0 to 5,0	16,0 to 19,0	0,30 to 0,60	-	Nb: 0,15
Austenitic steels with Ni as main alloying element												
X1NiCrMoCu25-20-5	1.4539	0,020	0,70	2,00	0,030	0,010	19,0 to 21,0	4,0 to 5,0	24,0 to 26,0	0,15	1,20 to 2,00	-
X1NiCrMoCuN25-20-7	1.4529	0,020	0,75	2,00	0,030	0,010	19,0 to 21,0	6,0 to 7,0	24,0 to 26,0	0,15 to 0,25	0,50 to 1,50	-
X2NiCrAlTi32-20	1.4558	0,030	0,70	1,00	0,020	0,015	20,0 to 23,0	-	32,0 to 35,0	-	-	Al: 0,15 to 0,45 Ti: [8 × (C + N)] to 0,60
X1NiCrMoCu31-27-4	1.4563	0,020	0,70	2,00	0,030	0,010	26,0 to 28,0	3,00 to 4,0	30,0 to 32,0	0,10	0,70 to 1,50	-
Elements not quoted ("–") or not listed in this table shall not be intentionally added to the steel without the agreement of the purchaser except for finishing the cast. All appropriate precautions shall be taken to avoid the addition of such elements from scrap and other materials used in production which would impair mechanical properties and the suitability of the steel.												
^a Maximum values unless indicated otherwise. ^b For bars, rods, wire, sections, bright products and the relevant semi-finished products, a maximum content of 0,030 % S applies. Particular ranges of sulfur content may provide improvement of particular properties. For machinability a controlled sulfur content of 0,015 % to 0,030 % is recommended and permitted. For weldability, a controlled sulfur content of 0,0080 % to 0,030 % is recommended and permitted. For polishability, a controlled sulfur content of 0,015 % max. is recommended. ^c For austenitic steel grades intended for cold heading and cold extruding, a Cu-content of max. 1,00 % is permitted. ^d Where for special reasons, e.g. hot workability for the fabrication of seamless tubes where it is necessary to minimize the delta ferrite content, or with the aim of low magnetic permeability, the maximum Ni content may be increased by the following amounts: - mass fraction of 0,50 %: 1.4571; - mass fraction of 1,00 %: 1.4306, 1.4406, 1.4429, 1.4434, 1.4436, 1.4438, 1.4541, 1.4550; - mass fraction of 1,50 %: 1.4404. ^e Parts made of high sulfur free cutting austenitic steels might not comply with European Directive 94/27 regarding articles in contact with human skin. ^f For pressure purposes a carbon limit of C ≤ 0,07 % is allowed. ^g For application according to Pressure Equipment Directive (PED) 2014/68/EU the phosphorus content is restricted to max 0,035 %. ^h For cold heading and cold extruding, a Cu-content of max. 3,5 % can be agreed upon at the time of enquiry and order * Patented steel grade.												

Table 3 — Chemical composition (cast analysis) of austenitic-ferritic corrosion resistant steels

Steel designation		% by mass ^a										
Name	Number	C	Si	Mn	P	S	Cr	Mo	Ni	N	Cu	Others
Austenitic-ferritic steels without minimum Mo content												
X2CrNiN22-2 *	1.4062 *	0,030	1,00	2,00	0,040	0,010	21,5 to 24,0	0,45	1,00 to 2,90	0,16 to 0,28	-	-
X2CrCuNiN23-2-2 *	1.4669 *	0,045	1,00	1,00 to 3,00	0,040	0,030	21,5 to 24,0	0,50	1,00 to 3,00	0,12 to 0,20	1,60 to 3,00	-
X2CrMnNiSiN20-5-4-2 *	1.4670 *	0,030	1,50 to 3,00	4,0 to 6,0	0,040	0,010	18,0 to 21,0	0,60	3,00 to 5,5	0,10 to 0,20	1,00	-
Austenitic-ferritic steels with Mo												
X2CrNiMoSi18-5-3	1.4424	0,030	1,40 to 2,00	1,20 to 2,00	0,035	0,015	18,0 to 19,0	2,50 to 3,00	4,5 to 5,2	0,05 to 0,10	-	-
X2CrNiMnMoCuN21-3-1-1 *	1.4637 *	0,015 to 0,030	0,30 to 0,50	1,05 to 1,30	0,035	0,05	19,9 to 20,3	1,15 to 1,30	2,65 to 3,00	0,18 to 0,21	0,30 to 0,50	-
X2CrNiN23-4	1.4362	0,030	1,00	2,00	0,035	0,015	22,0 to 24,5	0,10 to 0,60	3,5 to 5,5	0,05 to 0,20	0,10 to 0,60	-
X2CrMnNiN21-5-1	1.4162	0,04	1,00	4,0 to 6,0	0,040	0,015	21,0 to 22,0	0,10 to 0,80	1,35 to 1,90	0,20 to 0,25	0,10 to 0,80	-
X2CrMnNiMoN21-5-3	1.4482	0,030	1,00	4,0 to 6,0	0,035	0,030	19,5 to 21,5	0,10 to 0,60	1,50 to 3,50	0,05 to 0,20	1,00	-
X2CrNiMoN22-5-3 ^c	1.4462 ^c	0,030	1,00	2,00	0,035	0,015	21,0 to 23,0	2,50 to 3,5	4,5 to 6,5	0,10 to 0,22	-	-
X2CrNiMnMoCuN24-4-3-2 *	1.4662 *	0,030	0,70	2,50 to 4,0	0,035	0,005	23,0 to 25,0	1,00 to 2,00	3,00 to 4,5	0,20 to 0,30	0,10 to 0,80	-
X2CrNiMoCuN25-6-3	1.4507	0,030	0,70	2,00	0,035	0,015	24,0 to 26,0	3,00 to 4,0	6,0 to 8,0	0,20 to 0,30	1,00 to 2,50	-
X3CrNiMoN27-5-2	1.4460	0,05	1,00	2,00	0,035	0,015 ^b	25,0 to 28,0	1,30 to 2,00	4,5 to 6,5	0,05 to 0,20	-	-
X2CrNiMoN25-7-4	1.4410	0,030	1,00	2,00	0,035	0,015	24,0 to 26,0	3,00 to 4,5	6,0 to 8,0	0,24 to 0,35	-	-
X2CrNiMoCuWN25-7-4	1.4501	0,030	1,00	1,00	0,035	0,015	24,0 to 26,0	3,00 to 4,0	6,0 to 8,0	0,20 to 0,30	0,50 to 1,00	W: 0,50 to 1,00
X2CrNiMoN29-7-2	1.4477	0,030	0,50	0,80 to 1,50	0,030	0,015	28,0 to 30,0	1,50 to 2,60	5,8 to 7,5	0,30 to 0,40	0,80	-
X2CrNiMoCoN28-8-5-1	1.4658	0,030	0,50	1,50	0,035	0,010	26,0 to 29,0	4,0 to 5,0	5,5 to 9,5	0,30 to 0,50	1,00	Co: 0,50 to 2,00
Elements not quoted (" - ") or not listed in this table shall not be intentionally added to the steel without the agreement of the purchaser except for finishing the cast. All appropriate precautions shall be taken to avoid the addition of such elements from scrap and other materials used in production which would impair mechanical properties and the suitability of the steel.												
^a Maximum values unless indicated otherwise. ^b For bars, rods, wire, sections, bright products and the relevant semi-finished products, a maximum content of 0,030 % S applies. Particular ranges of sulfur content may provide improvement of particular properties. For machinability a controlled sulfur content of 0,015 % to 0,030 % is recommended and permitted. For weldability, a controlled sulfur content of 0,008 % to 0,030 % is recommended and permitted. For polishability, a controlled sulfur content of 0,015 % max. is recommended. ^c Minimum value of the Pitting Resistance Equivalent (PRE = Cr + 3,3 Mo + 16 N) can be agreed upon at the time of enquiry and order. * Patented steel grade.												

Table 4 — Chemical composition (cast analysis) of ferritic corrosion resistant steels

Steel designation		% by mass ^a											
Name	Number	C	Si	Mn	P	S	Cr	Mo	Ni	N	Nb	Ti	Others
Ferritic steels													
X3CrS12	1.4045	0,060	2,00	1,50	0,040	0,15 to 0,35	11,0 to 13,0	1,00					
X2CrNi12	1.4003	0,030	1,00	2,00	0,040	0,015 ^b	10,5 to 12,5	-	0,30 to 1,00	0,030	-	-	-
X2CrTi12	1.4512	0,030	1,00	1,00	0,040	0,015	10,5 to 12,5	-	-	-	-	[6 × (C + N)] to 0,65 ^c	-
X6CrNiTi12	1.4516	0,08	0,70	1,50	0,040	0,015	10,5 to 12,5	-	0,50 to 1,50	-	-	0,05 to 0,35	-
X6Cr13	1.4000	0,08	1,00	1,00	0,040	0,015 ^b	12,0 to 14,0	-	-	-	-	-	-
X6CrAl13	1.4002	0,08	1,00	1,00	0,040	0,015 ^b	12,0 to 14,0	-	-	-	-	-	Al: 0,10 to 0,30
X2CrMnNiTi12	1.4600	0,030	1,00	1,00 to 2,50	0,040	0,015	11,0 to 13,0	-	0,30 to 1,00	0,025	-	6 × C to 0,35	-
X2CrSiTi15	1.4630	0,030	0,20 to 1,50	1,00	0,050	0,050	13,0 to 16,0	0,50	0,50	-	0,50	[4 × (C + N) + 0,15] to 0,80 ^c	Al: 1,50 Cu: 0,50
X1CrNb15	1.4595	0,020	1,00	1,00	0,025	0,015	14,0 to 16,0	-	-	0,020	0,20 to 0,60	-	-
X6Cr17	1.4016	0,08	1,00	1,00	0,040	0,015 ^b	16,0 to 18,0	-		-	-	-	-
X2CrTi17	1.4520	0,025	0,50	0,50	0,040	0,015	16,0 to 18,0	-	-	0,015	-	[4 × (C + N) + 0,15] to 0,80 ^c	-
X3CrTi17	1.4510	0,05	1,00	1,00	0,040	0,015 ^b	16,0 to 18,0	-	-	-	-	[4 × (C + N) + 0,15] to 0,80 ^c	-
X3CrNb17	1.4511	0,05	1,00	1,00	0,040	0,015 ^b	16,0 to 18,0	-	-	-	12 × C to 1,00	-	-