SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.4406 · CLASS 1.4

X10CrNi18.08

Material no. 1.4406

also listed as X2CrNiMoN17-11-2

Chemical composition, mechanical and physical property values, and 46 standard designations from 7 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.95 g/cm³	46 in 7 regions	10 on file

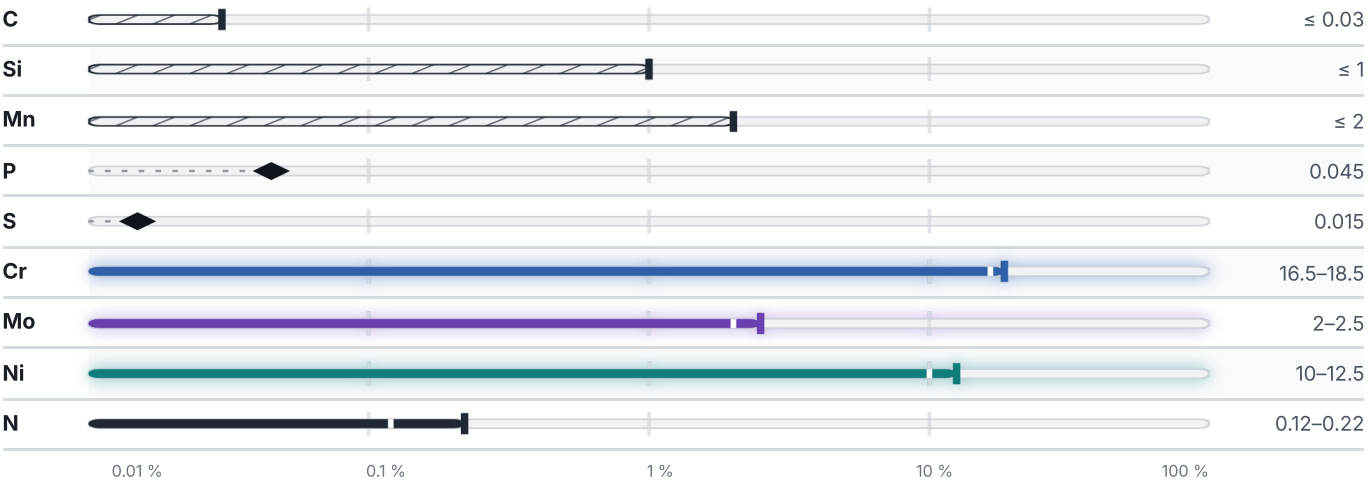
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 65.7 % · Cr — 17.5 % · Ni — 11.3 % · Mo — 2.3 % · Traces & impurities · 3.3 %

Logarithmic scale, 0.01 % to 100 % — every value here compares directly, decade by decade.



The scale is logarithmic, not the element's raw share of the alloy — the only honest way to fit 0.01 % and 100 % in one picture, and it means every value here can be compared with every other.

Predicted transformation temperatures

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Mechanical properties

7 values across 2 conditions

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A %	HB	HRB	HV
Plate/Sheet Hot-rolled	550	245	40	–	–	–
Hot-rolled	–	–	–	217	95	220
SOFT ANNEALED						HB
Soft annealed						250

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.95	g/cm³

Designations across standards

46 designations · 4 documented as identical

United States 28

S31653 This grade's own name	uns
308	aisi-sae
316LN This grade's own name	aisi-sae
S31653	aisi-sae
A1012	astm
A1022	astm
A1049	astm
A182	astm
A193	astm
A194	astm
A213	astm
A240	astm
A249	astm
A269	astm
A276	astm
A312	astm
A320	astm
A336	astm
A358	astm
A376	astm
A403	astm
A479	astm
A688	astm
A813	astm
A814	astm
A943	astm
A965	astm
A988	astm

France 5

316S61	afnor
Z1NCDU25.20	afnor
Z2CND17.12Az	afnor
Z3CND17-11Az	afnor
Z3CND17-12Az	afnor

Europe 4

1.4406	din-en
X10CrNi18.08	din-en
X2CrNiMoN17-11-2 This grade's own name	din-en
X2CrNiMoN17-12-2 This grade's own name	din-en

United Kingdom 3

– 58C	bs
316S61	bs
316S63	bs

Japan 3

SCS17	jis
SUS F 316LN	jis
SUS316LN	jis

Spain 2

F.3542	une
F.8414	une

Sweden 1

2370	ss

Note on use. The data is compiled to the best of our knowledge from publicly available standards and manufacturer documentation. It replaces neither material testing nor an inspection document to EN 10204. Please request a mill certificate to EN 10204 2.1, 3.1 or 3.2 together with your enquiry. The standard in its current valid edition always prevails.

Enquiry about X10CrNi18.08

Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.4406	Aug 20, 2026