SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.4318 · CLASS 1.4

X2CrNiN18-7

Material no. 1.4318

Chemical composition, mechanical and physical property values, and 7 standard designations from 4 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
8 g/cm³	7 in 4 regions	9 on file

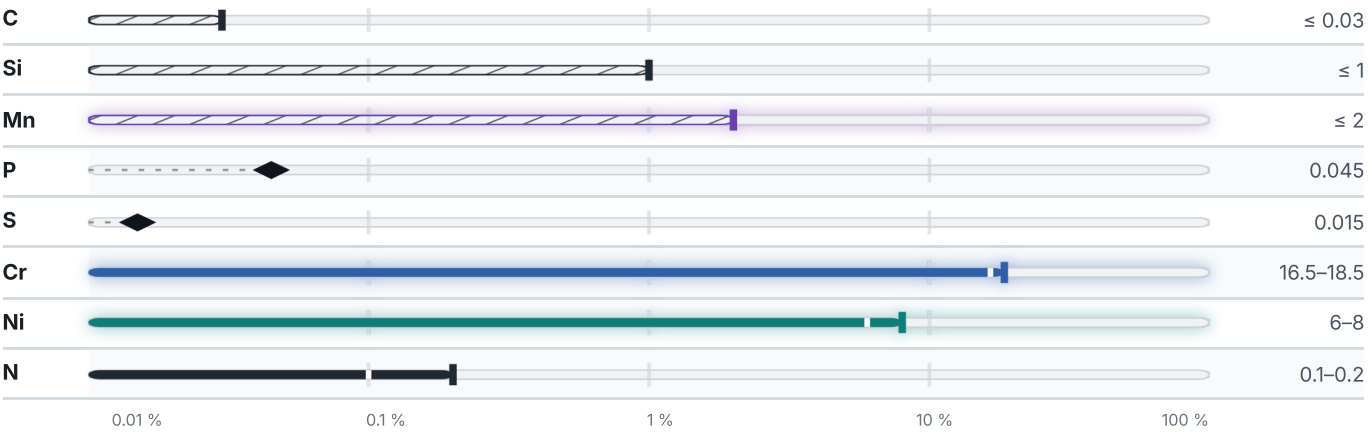
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 72.3 % · Cr — 17.5 % · Ni — 7 % · Mn — 2 % · Traces & impurities · 1.2 %

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Mo.

Mechanical properties

6 values across 1 conditions

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A %	HB	HRB	HV
Plate/Sheet Hot-rolled	550	215	45	–	–	–
Hot-rolled	–	–	–	207	95	218

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	8	g/cm³

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Annealing	Temperature not stated	—

Designations across standards

7 designations · 4 documented as identical

United States 3

S30103 This grade's own name	uns
S30153 This grade's own name	uns
301LN This grade's own name	aisi-sae

Japan 2

SUS 301 LN	jis
SUS301L	jis

Europe 1

X2CrNiN18-7 This grade's own name	din-en

France 1

Z3CN18-07Az	afnor

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 X2CrNiN18-7

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	1.4318	Aug 20, 2026