

MATERIAL NUMBER 1.4112 · CLASS 1.4

X90CrMoV18

Material no. 1.4112

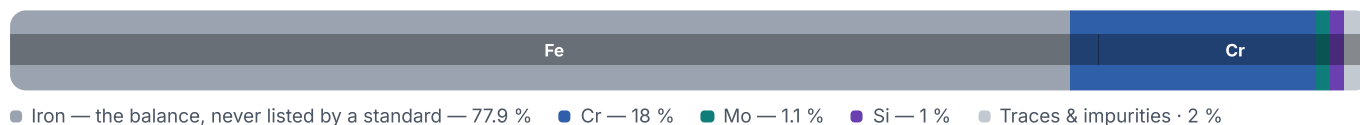
Chemical composition, mechanical and physical property values, and 32 standard designations from 12 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.7 g/cm ³	32 in 12 regions	9 on file

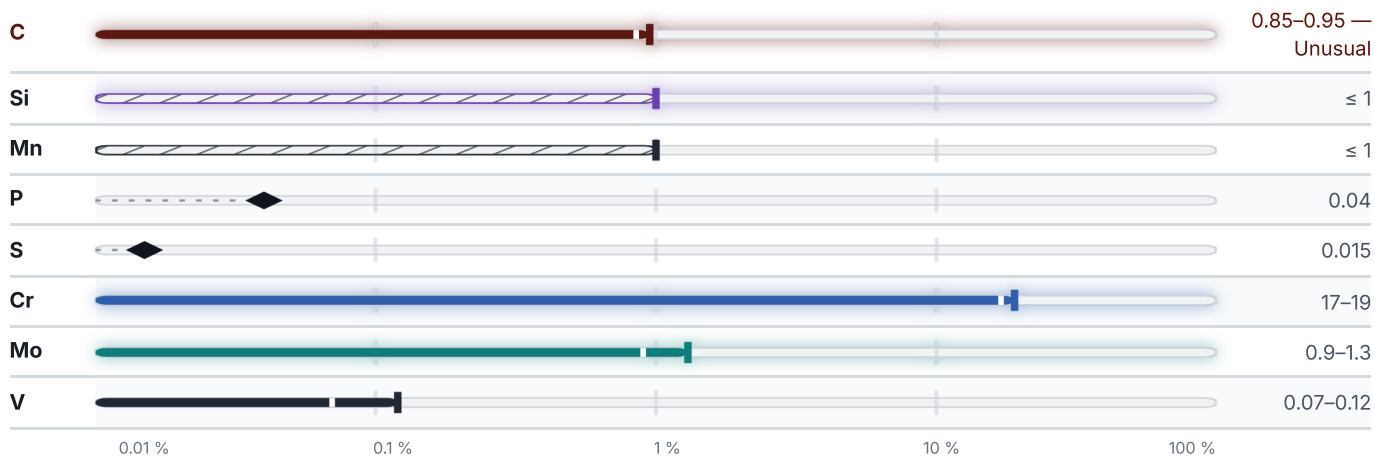
Chemical composition

Mass fraction in %

What this alloy is



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: Ni.

Mechanical properties

1 values across 1 conditions

SOFT ANNEALED	HB
Soft annealed	265

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³

Designations across standards

32 designations · 3 documented as identical

United States	18	Slovakia	2
S44002	uns	17 042	stn
S44003 This grade's own name	uns	17 151	stn
S44004	uns		
S44020	uns	Europe	1
440 C	aisi-sae	X90CrMoV18 This grade's own name	din-en
440A	aisi-sae		
440B This grade's own name	aisi-sae	France	1
440F	aisi-sae	X89CrMoV18-1	afnor
51440B	aisi-sae		
S44003	aisi-sae	International	1
A276	astm	X108CrMo17	iso
A314	astm		
A473	astm	United States / Aerospace	1
A580	astm	7445	ams
F116	astm		
F1613	astm	Japan	1
F2215	astm	SUS 440B	jis
F899	astm		
		China	1
Russia / CIS	2	8Cr17	gb
95Ch18	gost		
95Kh18	gost	former Yugoslavia	1
		Č.4772	jus
Czechia	2		
17042	csn	Poland	1
17151	csn	H18	pn

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 X90CrMoV18

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

[Start an enquiry](#)

DATASHEET ONLINE

[View the material page](#)

GRADE SEARCH

[Search all grades](#)

MATERIAL NO.

1.4112

ISSUED

Aug 20, 2026