

MATERIAL NUMBER 1.4842 · CLASS 1.4

X12CrNi25-20

Material no. 1.4842

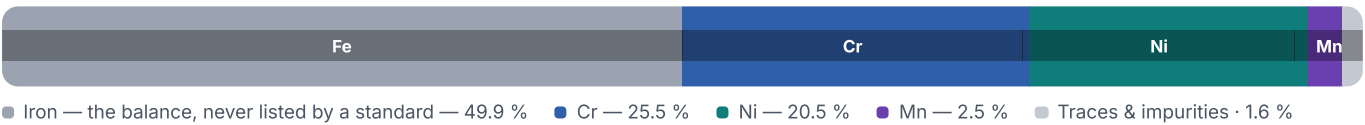
Chemical composition, mechanical and physical property values, and 35 standard designations from 13 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	35 in 13 regions	8 on file

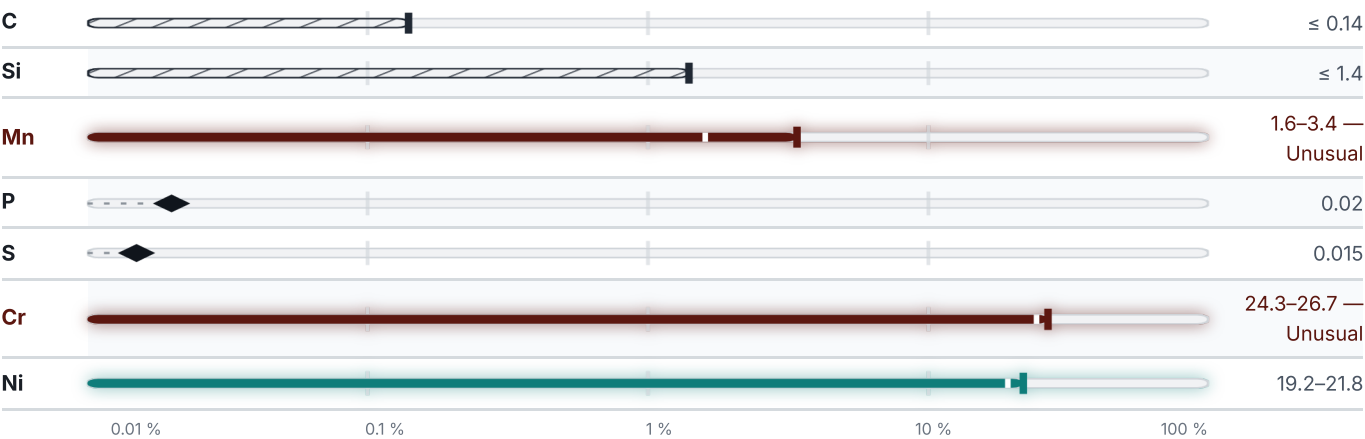
Chemical composition

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: Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

35 designations · 2 documented as identical

United States		11	Russia / CIS		3
S31080	This grade's own name	uns	0X23H18		gost
310 S		aisi-sae	10KH23N18		gost
S31000		aisi-sae	10X23H18		gost
S31008		aisi-sae			
S31009		aisi-sae	Spain		2
A167		astm	F.331		une
A176		astm	X8CrNi25-21		une
A240		astm			
A276		astm	Japan		2
A479		astm	SUH310		jis
A484		astm	SUS310S		jis
United Kingdom		4	Europe		1
310S16		bs	X12CrNi25-20	This grade's own name	din-en
310S24		bs			
310S94		bs	China		1
X8CrNi25-21		bs	0Cr25Ni20		gb
United States / Aerospace		4	Italy		1
5521		ams	X6CrNi25-20		uni
5572		ams			
5577		ams	Sweden		1
5651		ams	2361		ss
France		3	Czechia		1
Z12CN25-20		afnor	17 255		csn
Z12CN26-21		afnor			
Z8CN25-20		afnor	Australia / New Zealand		1
			310S		as-nzs

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 X12CrNi25-20

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

Start an enquiry