

MATERIAL NUMBER 1.4971 · CLASS 1.4

X12CrNiCoMoWMnNNb 21-20-20-3-3-2

Material no. 1.4971

also listed as X12CrCoNi21-20

Chemical composition, mechanical and physical property values, and 8 standard designations from 3 regions.

DENSITY

7.85 g/cm³

OTHER DESIGNATIONS

8 in 3 regions

PROPERTY VALUES

13 on file

Chemical composition

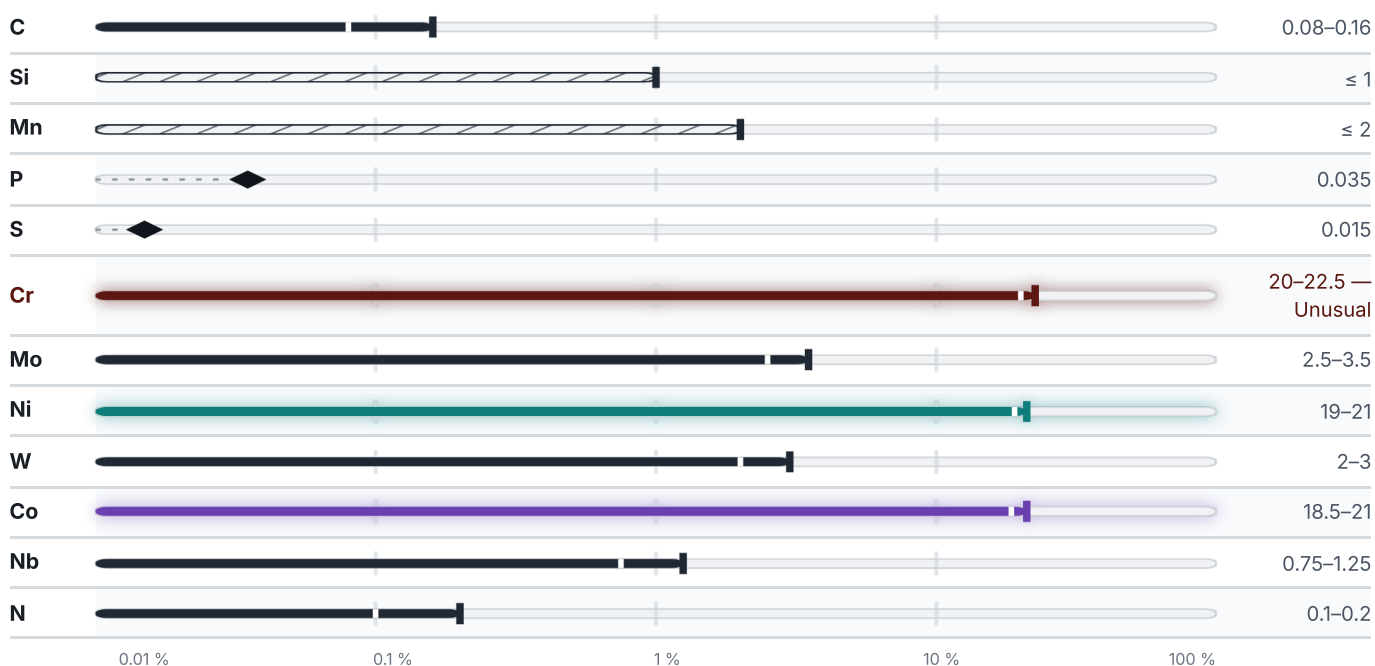
Mass fraction in %

What this alloy is



■ Iron — the balance, never listed by a standard — 29.2 % ■ Cr — 21.3 % ■ Ni — 20 % ■ Co — 19.8 % ■ Traces & impurities · 9.8 %

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

8 designations · 2 documented as identical

United States / Aerospace	4	Europe	2
5532	ams	X12CrCoNi21-20 This grade's own name	din-en
5769	ams	X12CrNiCoMoWMnNNb 21-20-20-3-3-2	din-en
5794	ams	This grade's own name	
5795	ams	United States	2
		R30155	uns
		661	aisi-sae

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 X12CrNiCoMoWMnNNb 21-20-20-3-3-2

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	1.4971	Aug 20, 2026