

MATERIAL NUMBER 1.4552 · CLASS 1.4

821 grade Nb

Material no. 1.4552

also listed as G-X 5 CrNiNb 18 9

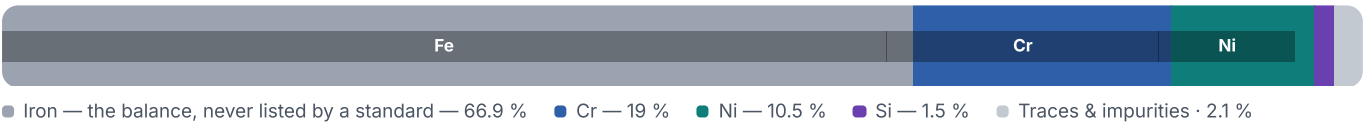
Chemical composition, mechanical and physical property values, and 15 standard designations from 7 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 15 in 7 regions	PROPERTY VALUES 9 on file
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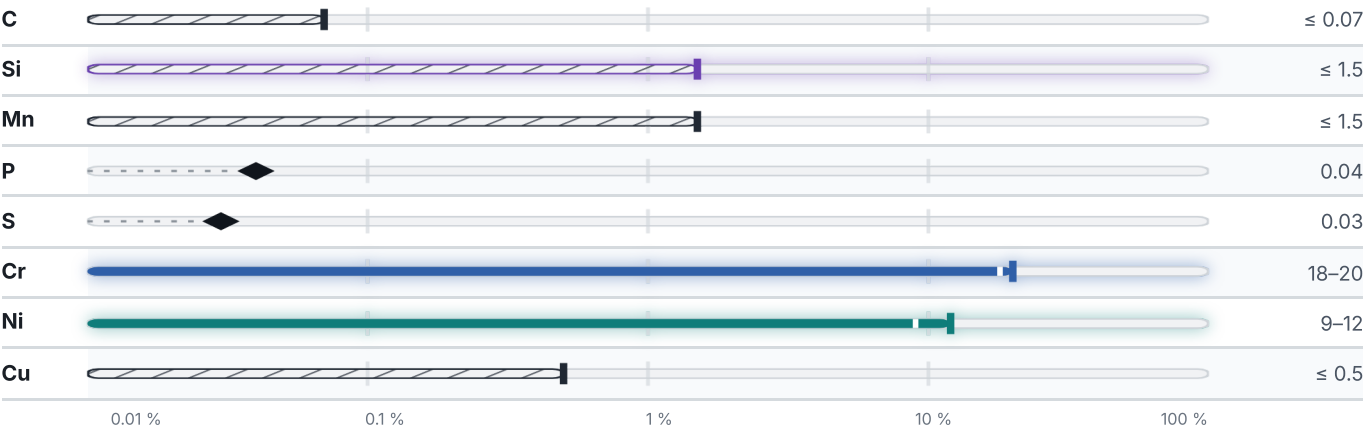
Chemical composition

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

15 designations · 5 documented as identical

United States	5	Spain	2
J92640 This grade's own name	uns	AM-X7 CrNiNb 20 10	une
J92710 This grade's own name	uns	F.8413	une
347 This grade's own name	aisi-sae	Japan	2
J92640	aisi-sae	SCS 21	jis
J92710	aisi-sae	SCS 21X	jis
Europe	2	France	1
G-X 5 CrNiNb 18 9 This grade's own name	din-en	Z4CNNb19.10M	afnor
GX5CrNiNb19-11 This grade's own name	din-en	United States / Aerospace	1
United Kingdom	2	5362	ams
347 C 17	bs		
821 grade Nb	bs		

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 821 grade Nb

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	1.4552	Aug 20, 2026