

MATERIAL NUMBER 1.6368 · CLASS 1.6

591

Material no. 1.6368

also listed as 15NiCuMoNb5

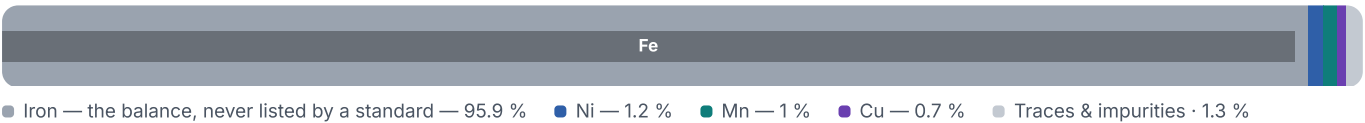
Chemical composition, mechanical and physical property values, and 13 standard designations from 5 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 13 in 5 regions	PROPERTY VALUES 13 on file
--	--	--------------------------------------

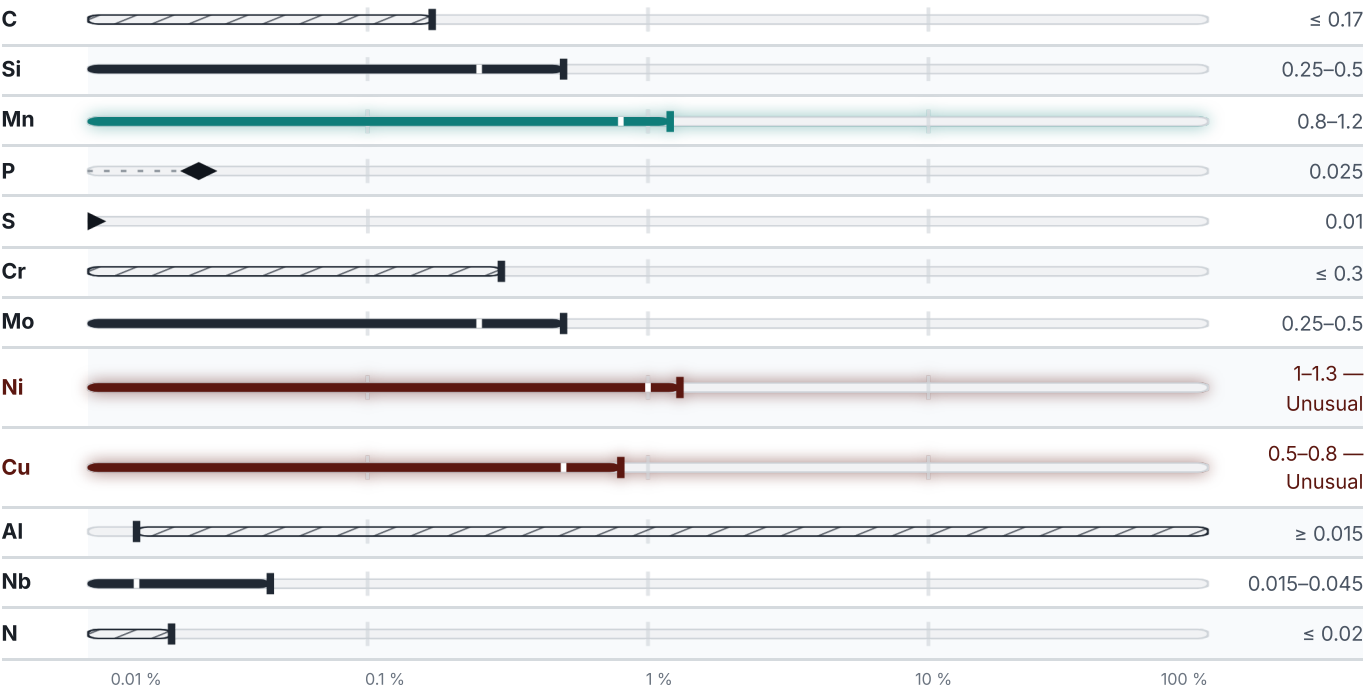
Chemical composition

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

computed from composition · °C

PREDICTED AE3 806 °C	PREDICTED AE1 705 °C	PREDICTED ACM 408 °C	PREDICTED BS 535 °C
-------------------------	-------------------------	-------------------------	------------------------

Mechanical properties

9 values across 1 conditions

CONDITION · DIMENSION	REH N/mm²	RM N/mm²
≤ 40	460	–
40 – 60	440	–
≤ 60	–	610–780
60 – 100	430	600–760
100 – 150	420	590–740
150 – 200	410	580–740

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

13 designations · 3 documented as identical

Poland	5	Europe	2
15NCuMNb	pn	15NiCuMoNb5 This grade's own name	din-en
15NCuMNbA	pn	15NiCuMoNb5-6-4 This grade's own name	din-en
18CuNMT	pn		
K32Nb	pn	United Kingdom	1
K32NbA	pn	591	bs
United States	4	International	1
K12529	uns	9NiMnMoNb5-4-4	iso
K12539	uns		
K12554	uns		
K12766 This grade's own name	uns		

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 591

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.

1.6368

ISSUED

Aug 20, 2026