

MATERIAL NUMBER 1.5662 · CLASS 1.5

17501VN

Material no. 1.5662

also listed as X8Ni9

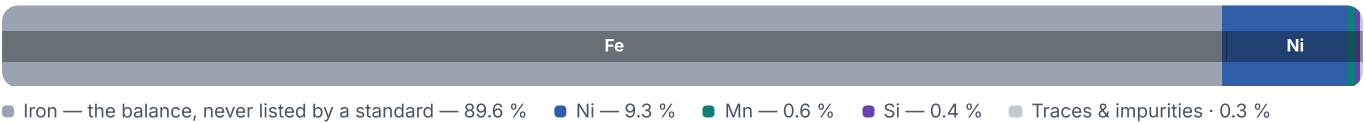
Chemical composition, mechanical and physical property values, and 18 standard designations from 7 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 18 in 7 regions	PROPERTY VALUES 9 on file
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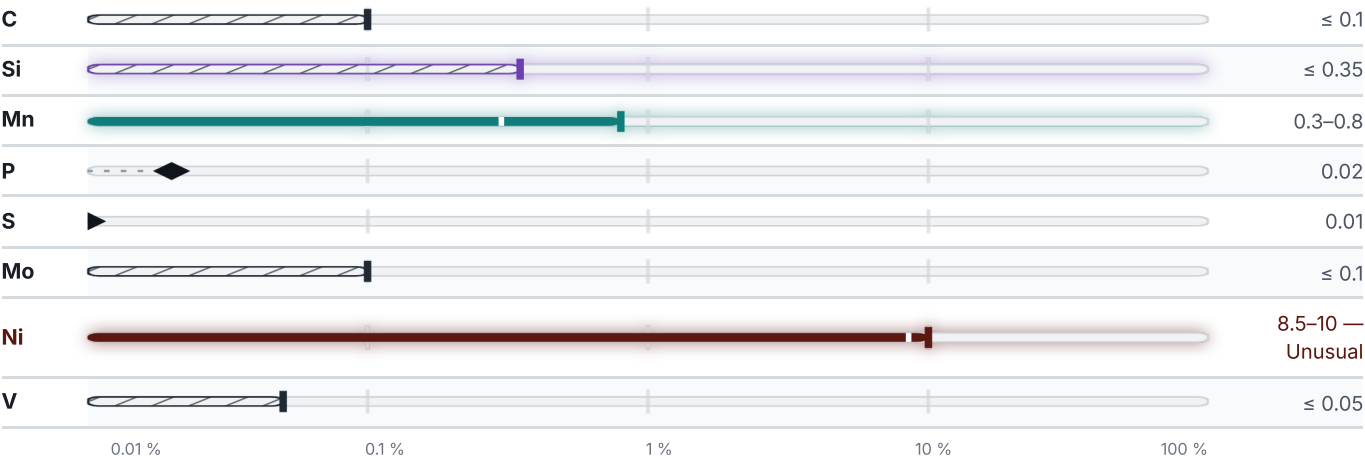
Chemical composition

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: Cr.

Mechanical properties

6 values across 3 conditions

NORMALIZED	REH N/mm ²	RM N/mm ²
≤ 30	490	–
30 – 50	480	–
≤ 50	–	640–840
QUENCHED AND TEMPERED	REH N/mm ²	
≤ 30		490–585
30 – 50		480–575
CONDITION · DIMENSION		A %
≤ 50		18

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

18 designations · 3 documented as identical

United States	5	France	3
K71340 This grade's own name	uns	9Ni490	afnor
K81340 This grade's own name	uns	Z8N09	afnor
A353	aisi-sae	Z8N9	afnor
ASTM A353	aisi-sae		
A353	astm	Spain	2
		F.2645	une
Europe	3	XBNi09	une
1.5662	din-en		
X8Ni9 This grade's own name	din-en	Italy	1
Z8N09	din-en	X10Ni9	uni
United Kingdom	3	Czechia	1
1501-509	bs	17501VN	csn
1501-509-510	bs		
510	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 17501VN

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

[Start an enquiry](#)

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026