

MATERIAL NUMBER 1.4551 · CLASS 1.4

Z6CNNb20-10

Material no. 1.4551

also listed as X5CrNiNb19-9

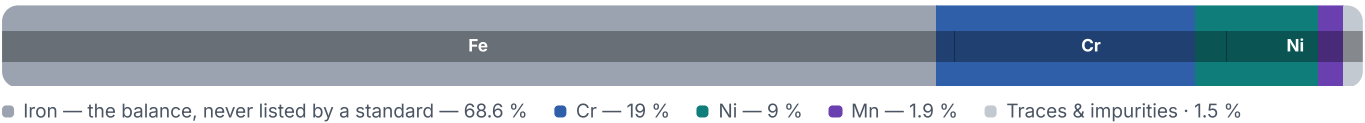
Chemical composition, mechanical and physical property values, and 10 standard designations from 5 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 10 in 5 regions	PROPERTY VALUES 8 on file
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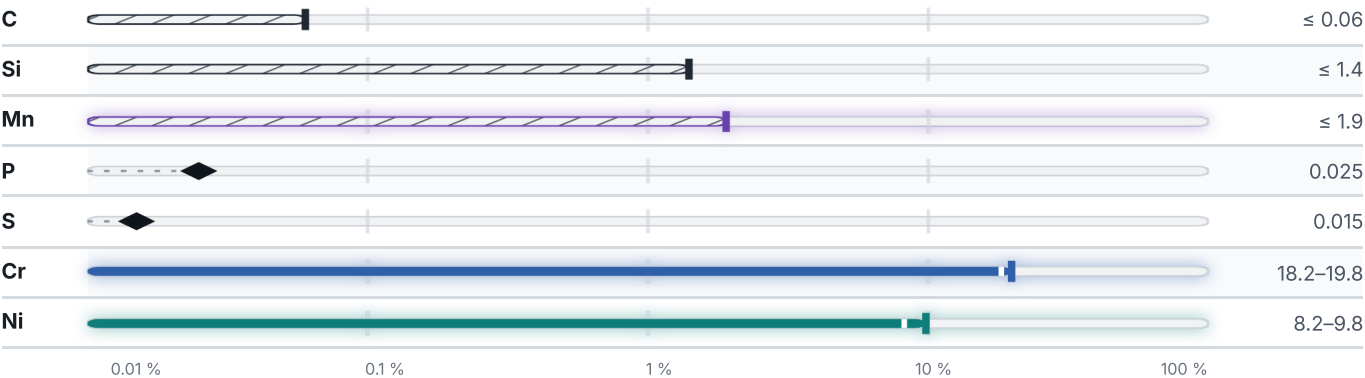
Chemical composition

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

10 designations · 4 documented as identical

United States		6	France		1
S34780	This grade's own name	uns	Z6CNNb20-10		afnor
S34781	This grade's own name	uns	Japan		1
S34788	This grade's own name	uns			
S347780		aisi-sae	SUS Y 347		jis
S34781		aisi-sae	Czechia		1
S34788		aisi-sae			
Europe		1	S 07 Cr20Ni10Nb1		csn
X5CrNiNb19-9	This grade's own name	din-en			

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 Z6CNNb20-10

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	1.4551	Aug 20, 2026