

MATERIAL NUMBER 1.4547 · CLASS 1.4

S31250

Material no. 1.4547

also listed as X1CrNiMoCuN20-18-7

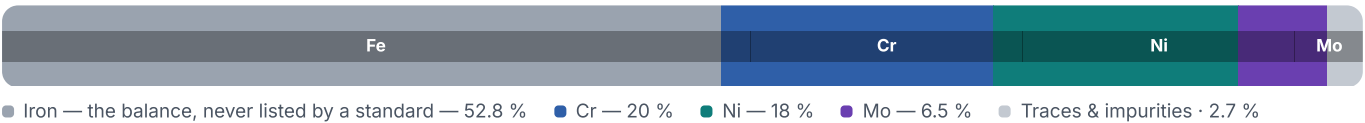
Chemical composition, mechanical and physical property values, and 15 standard designations from 6 regions.

DENSITY 8 g/cm³	OTHER DESIGNATIONS 15 in 6 regions	PROPERTY VALUES 11 on file
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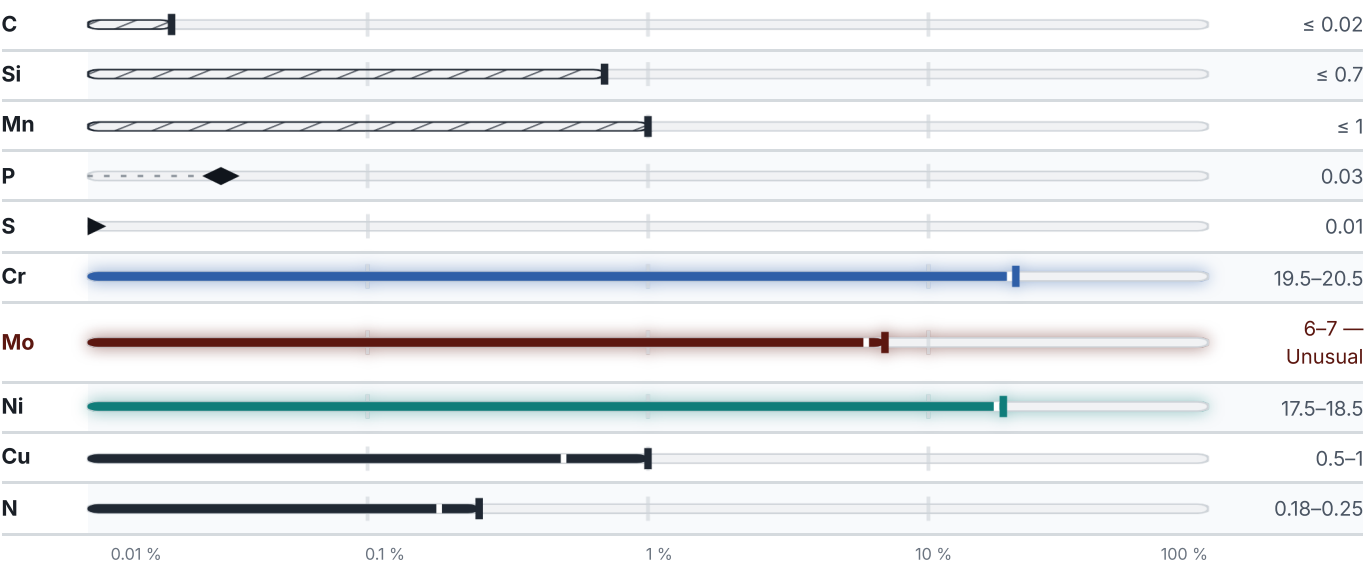
Chemical composition

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Mechanical properties

2 values across 2 conditions

SOFT ANNEALED		HB
Soft annealed		260
SOLUTION ANNEALED		HB
Solution annealed		220

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	8	g/cm ³

Designations across standards

15 designations · 4 documented as identical

United States		5	Europe		2
S31250		uns	1.4547		din-en
S31254	This grade's own name	uns	X1CrNiMoCuN20-18-7	This grade's own name	din-en
254SMO	This grade's own name	aisi-sae	China		
S31254		aisi-sae	1		
A182F44	This grade's own name	astm	00Cr20Ni18Mo6CuN		gb
France		5	Sweden		1
DMV 420		afnor	2378		ss
DMV 4335		afnor	Czechia		
DMV 954		afnor	1		
Z1CNDU20.18.06AZ		afnor	17 348		csn
Z2CNDU20-18-7Az		afnor			

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 S31250

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