

MATERIAL NUMBER 1.4547 · CLASS 1.4

X1CrNiMoCuN20-18-7

Material no. 1.4547

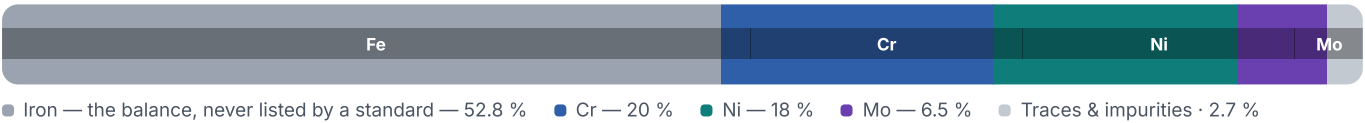
Chemical composition, mechanical and physical property values, and 15 standard designations from 6 regions.

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

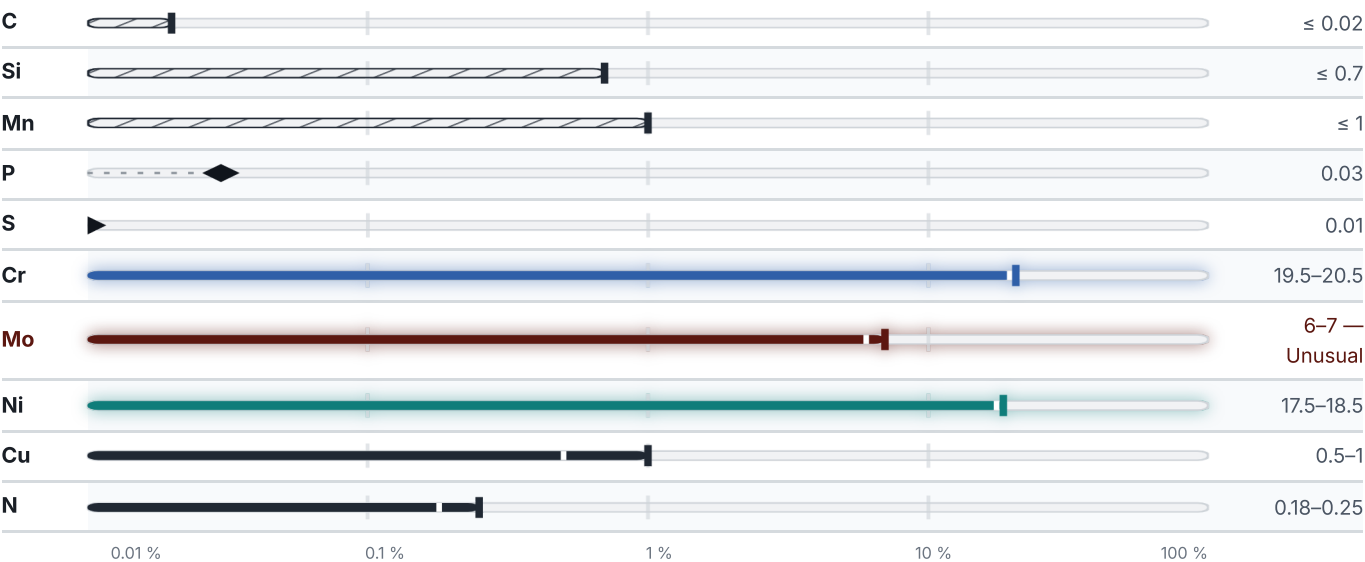
Chemical composition

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

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		
S31254	aisi-sae	China	1
A182F44 This grade's own name	astm	00Cr20Ni18Mo6CuN	gb
France	5	Sweden	1
DMV 420	afnor	2378	ss
DMV 4335	afnor		
DMV 954	afnor	Czechia	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 X1CrNiMoCuN20-18-7

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	1.4547	Aug 20, 2026