

MATERIAL NUMBER 1.4539 · CLASS 1.4

Z2NCDU25-20

Material no. 1.4539

also listed as X1NiCrMoCu25-20-5

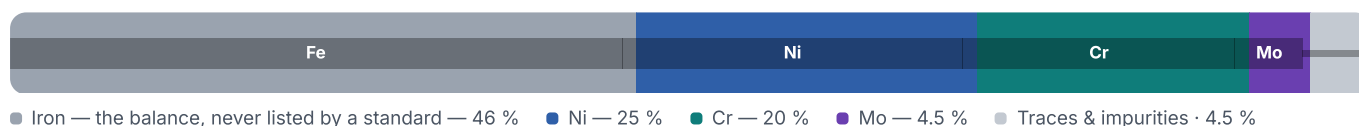
Chemical composition, mechanical and physical property values, and 23 standard designations from 9 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
8 g/cm ³	23 in 9 regions	11 on file

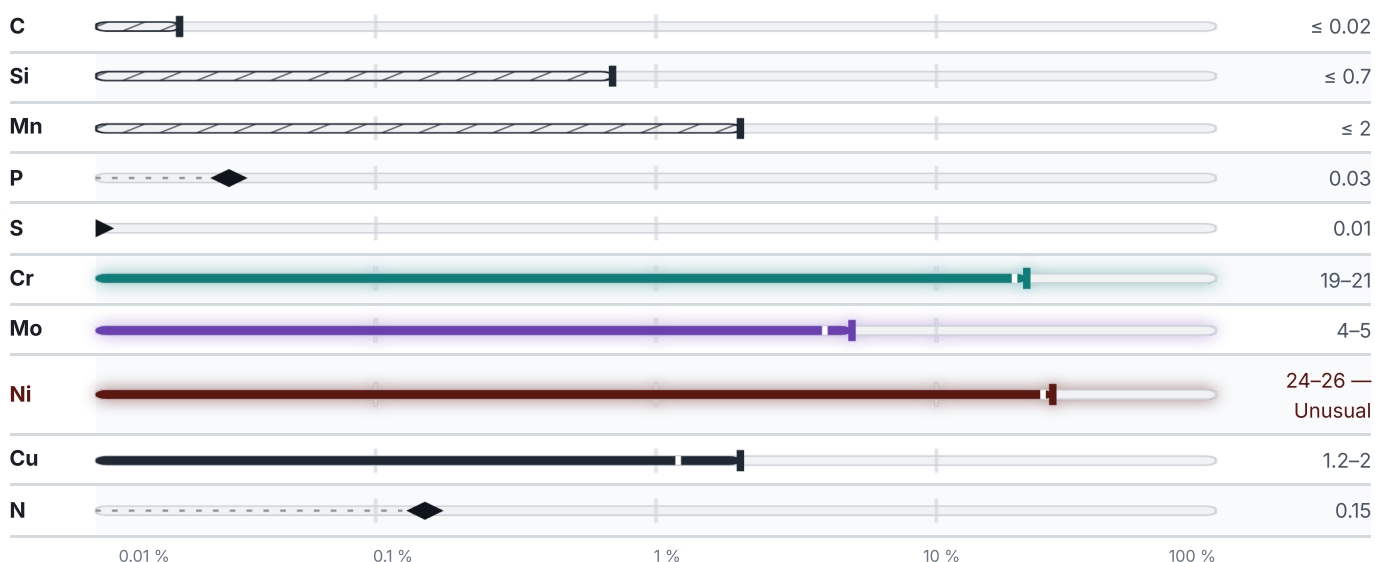
Chemical composition

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	230
SOLUTION ANNEALED	HB
Solution annealed	220

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	8	g/cm³

Designations across standards

23 designations · 1 documented as identical

United States	9	Europe	2
N08904	uns	1.4539	din-en
904L	aisi-sae	X1NiCrMoCu25-20-5	This grade's own name din-en
N08904	aisi-sae		
N08904	aisi-sae	Poland	2
UNS N08904	aisi-sae	00H22N24M4TCu	pn
UNS V	aisi-sae	0H22N24M4TCu	pn
UNS V 0890A	aisi-sae		
UNS8904	aisi-sae	United Kingdom	1
N 08904	astm	904S13	bs
France	3	Sweden	1
Z1NCDU25.20	afnor	2562	ss
Z2NCDU25-20	afnor		
Z6CNT18.10	afnor	Czechia	1
		17342	csn
Japan	3	Slovakia	1
F SUS 317 J5L	jis	17 342	stn
SUS 317 J5L TK	jis		
SUS 317 J5L TP	jis		

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 Z2NCDU25-20

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