

MATERIAL NUMBER 1.4563 · CLASS 1.4

02Ch27N31M4

Material no. 1.4563

also listed as X1NiCrMoCu31-27-4

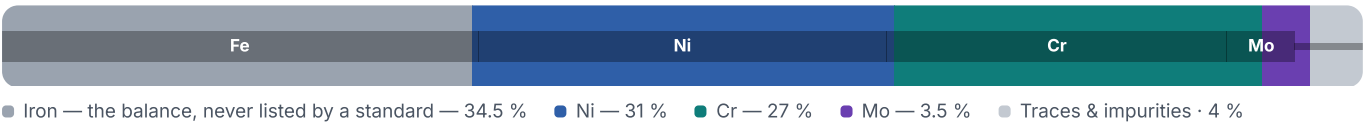
Chemical composition, mechanical and physical property values, and 13 standard designations from 5 regions.

DENSITY 8 g/cm ³	OTHER DESIGNATIONS 13 in 5 regions	PROPERTY VALUES 11 on file
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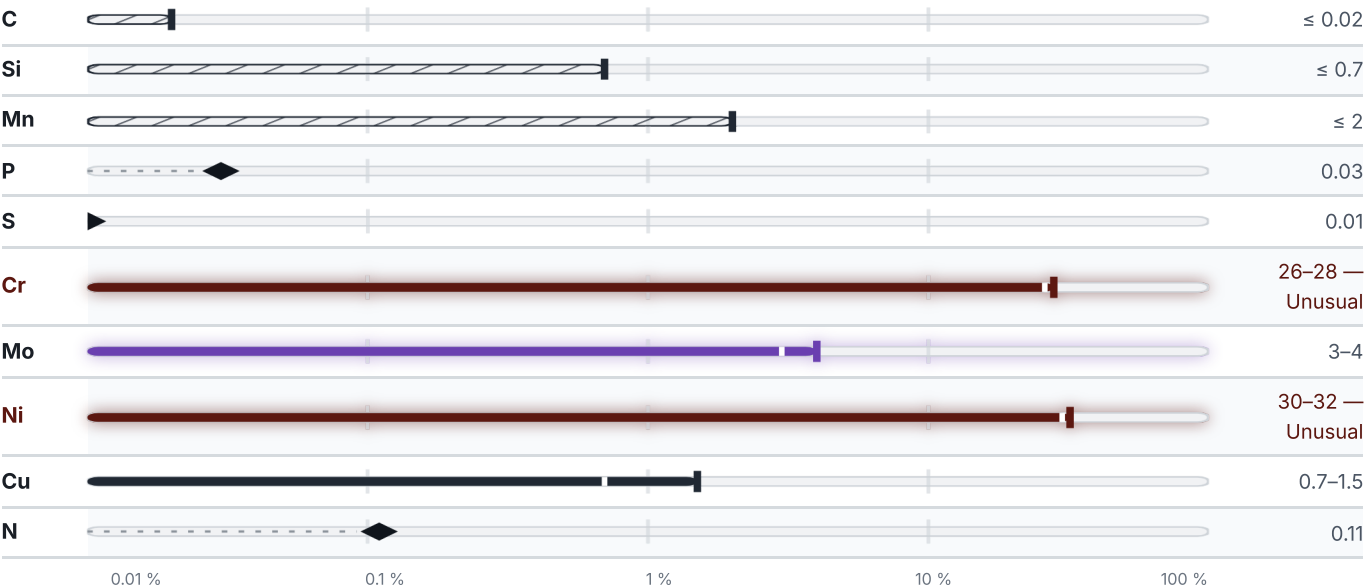
Chemical composition

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	230
SOLUTION ANNEALED	HB
Solution annealed	220

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	8	g/cm ³

Designations across standards

13 designations · 2 documented as identical

United States	4	Europe	2
N08028 This grade's own name	uns	1.4563	din-en
N08028	aisi-sae	X1NiCrMoCu31-27-4 This grade's own name	din-en
N08028	aisi-sae		
S31254	aisi-sae	Russia / CIS	2
		02Ch27N31M4	gost
France	3	02X27H31M4	gost
Z1CNDU20-18-06AZ	afnor		
Z1NCDU31-27-03	afnor	Sweden	2
Z2NCDU31.27	afnor	2584	ss
		2584 2378	ss

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 02Ch27N31M4

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	1.4563	Aug 20, 2026