

MATERIAL NUMBER 1.4335 · CLASS 1.4

S31002

Material no. 1.4335

also listed as X1CrNi25-21

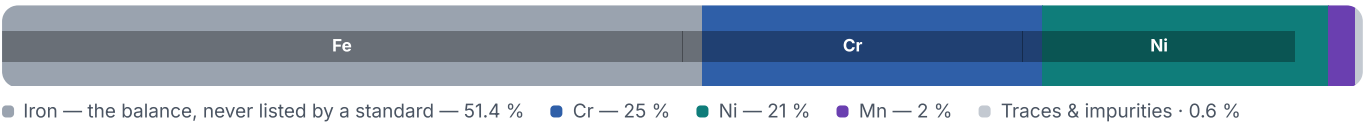
Chemical composition, mechanical and physical property values, and 36 standard designations from 8 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 36 in 8 regions	PROPERTY VALUES 10 on file
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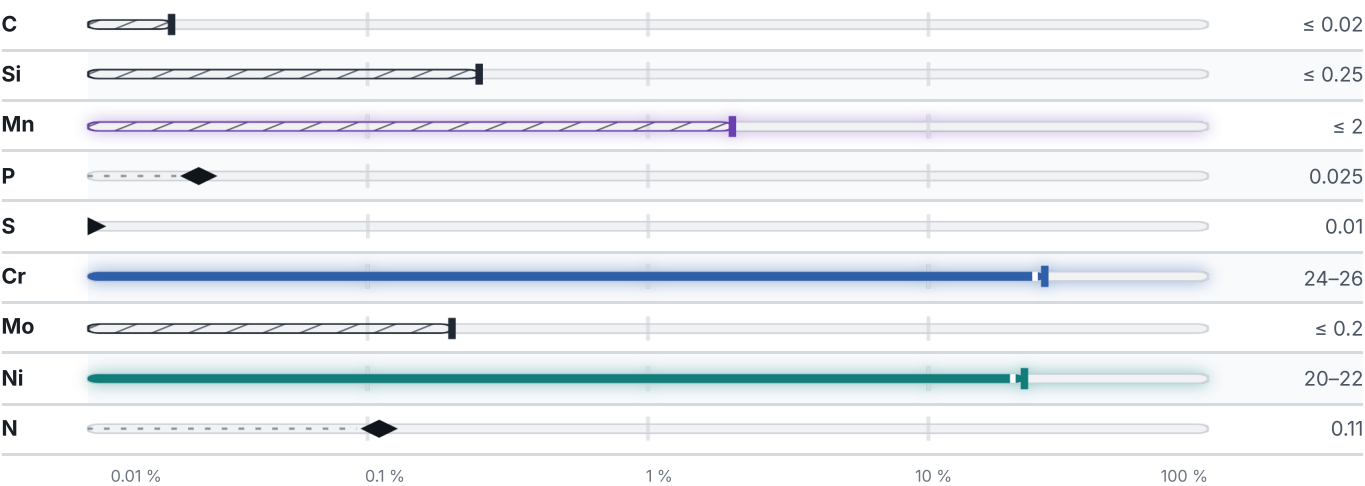
Chemical composition

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

1 values across 1 conditions

SOLUTION ANNEALED	HB
Solution annealed	220

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

36 designations · 2 documented as identical

United States24		United States / Aerospace5	
S31002	This grade's own nameuns	5521	ams
S31008	uns	5572	ams
30310S	aisi-sae	5577	ams
310S	aisi-sae	5651	ams
310L NAG	astm	7490	ams
A1012	astm	United Kingdom2	
A213	astm		
A240	astm	310S31	bs
A249	astm	310S94	bs
A264	astm	Europe1	
A276	astm		
A312	astm	X1CrNi25-21	This grade's own namedin-en
A314	astm	France1	
A358	astm		
A409	astm	Z1CN25-20	afnor
A473	astm	International1	
A479	astm		
A511	astm	X6CrNi25-21	iso
A554	astm	Japan1	
A580	astm		
A813	astm	SUS 310S	jis
A814	astm	China1	
A924	astm		
A943	astm	0Cr25Ni20	gb

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 S31002

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