

MATERIAL NUMBER 1.4558 · CLASS 1.4

1.4558

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

DENSITY 7.95 g/cm ³	OTHER DESIGNATIONS 13 in 5 regions	PROPERTY VALUES 10 on file
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Chemical composition

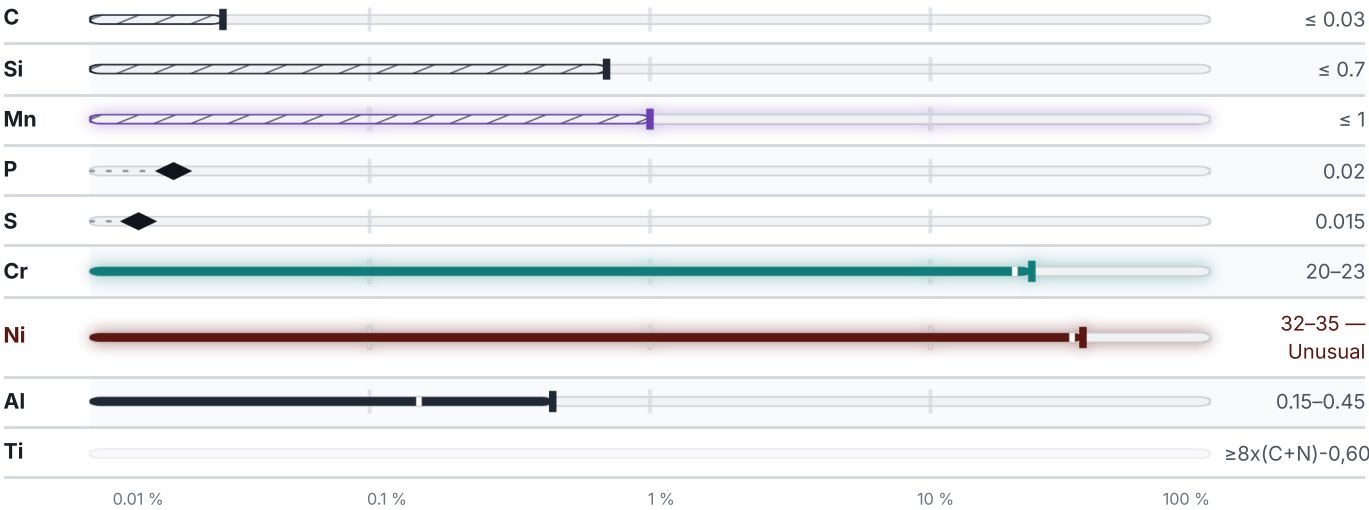
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 42.9 % ● Ni — 33.5 % ● Cr — 21.5 % ● Mn — 1 % ● Traces & impurities · 1.1 %

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.95	g/cm³

Designations across standards

13 designations · 2 documented as identical

United States6		International2	
Incoloy 800	uns	FeNi32Cr21AlTi	iso
Incoloy 800H	uns	NW8800	iso
Incoloy 800HT	uns		
N08800	uns	Russia / CIS2	
N08810	uns	Ch20N32T	gost
N08811	uns	EP670 /ChN32T	gost
France2		Europe1	
Z10NC32-21	afnor	X2NiCrAlTi32-20	This grade's own name din-en
Z8NC33-21	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 1.4558

Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

MATERIAL NO.

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ISSUED

Aug 20, 2026