

MATERIAL NUMBER 1.4948 · CLASS 1.4

1.4948

Chemical composition, mechanical and physical property values, and 17 standard designations from 7 regions.

DENSITY 7.9 g/cm³	OTHER DESIGNATIONS 17 in 7 regions	PROPERTY VALUES 9 on file
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Chemical composition

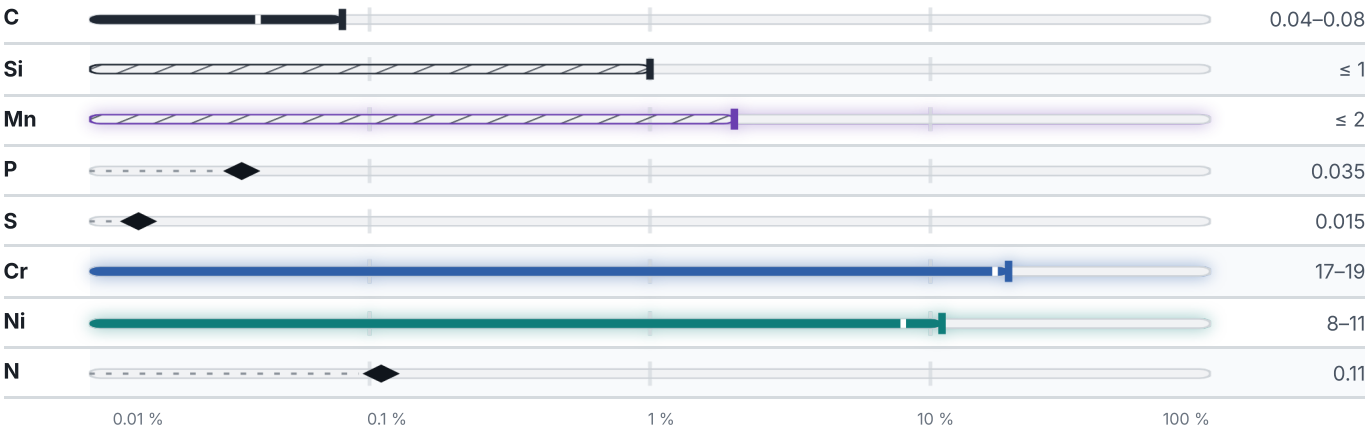
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 69.3 % ● Cr — 18 % ● Ni — 9.5 % ● Mn — 2 % ● Traces & impurities · 1.2 %

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	7.9	g/cm ³

Designations across standards

17 designations · 6 documented as identical

United States		6	United Kingdom		3
S30409	This grade's own name	uns	304 S 50		bs
S30480	This grade's own name	uns	304 S 51		bs
304H	This grade's own name	aisi-sae	801 grade A		bs
S30409		aisi-sae	Japan		2
S30480		aisi-sae			
TP304H		astm			
Europe		3	SUS 302		jis
X6CrNi18-10	This grade's own name	din-en	SUS304H		jis
X6CrNi18-11	This grade's own name	din-en	France		1
X7CrNi18-9	This grade's own name	din-en	Z6CN18-09		afnor
			International		1
			X7CrNi18-9		iso
			Russia / CIS		1
			08KH18N10		gost

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 1.4948

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

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ISSUED

Aug 20, 2026