

MATERIAL NUMBER 1.4842 · CLASS 1.4

1.4842

Chemical composition, mechanical and physical property values, and 35 standard designations from 13 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 35 in 13 regions	PROPERTY VALUES 8 on file
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Chemical composition

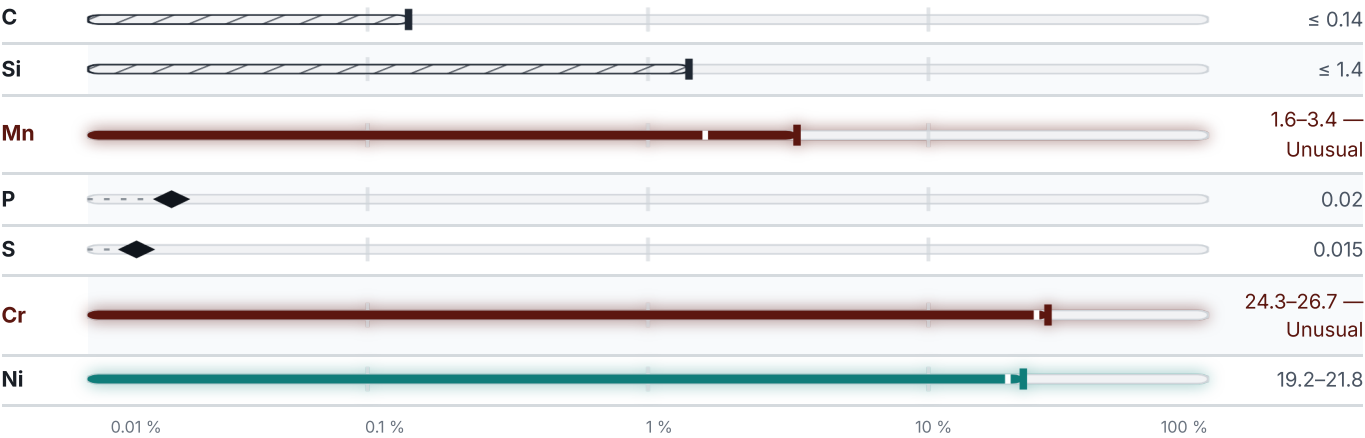
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 49.9 % ● Cr — 25.5 % ● Ni — 20.5 % ● Mn — 2.5 % ● Traces & impurities · 1.6 %

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	7.85	g/cm ³

Designations across standards

35 designations · 2 documented as identical

United States	11	Russia / CIS	3
S31080 This grade's own name	uns	0X23H18	gost
310 S	aisi-sae	10KH23N18	gost
S31000	aisi-sae	10X23H18	gost
S31008	aisi-sae		
S31009	aisi-sae	Spain	2
A167	astm	F.331	une
A176	astm	X8CrNi25-21	une
A240	astm		
A276	astm	Japan	2
A479	astm	SUH310	jis
A484	astm	SUS310S	jis
United Kingdom	4	Europe	1
310S16	bs	X12CrNi25-20 This grade's own name	din-en
310S24	bs		
310S94	bs	China	1
X8CrNi25-21	bs	0Cr25Ni20	gb
United States / Aerospace	4	Italy	1
5521	ams	X6CrNi25-20	uni
5572	ams		
5577	ams	Sweden	1
5651	ams	2361	ss
France	3	Czechia	1
Z12CN25-20	afnor	17 255	csn
Z12CN26-21	afnor		
Z8CN25-20	afnor	Australia / New Zealand	1
		310S	as-nzs

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 1.4842

Start an enquiry

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

DATASHEET ONLINE

View the material page

GRADE SEARCH

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ISSUED

Aug 20, 2026