

MATERIAL NUMBER 1.4523 · CLASS 1.4

1.4523

Chemical composition, mechanical and physical property values, and 13 standard designations from 8 regions.

DENSITY 7.7 g/cm³	OTHER DESIGNATIONS 13 in 8 regions	PROPERTY VALUES 9 on file
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Chemical composition

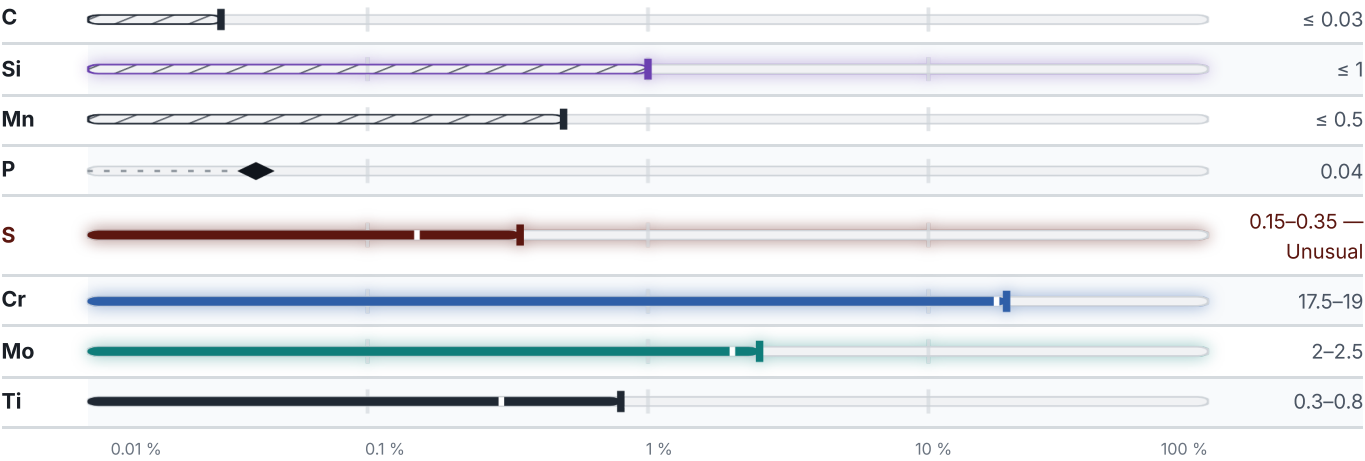
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 77.1 % ● Cr — 18.3 % ● Mo — 2.3 % ● Si — 1 % ● Traces & impurities · 1.4 %

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: Ni.

Mechanical properties

1 values across 1 conditions

SOFT ANNEALED	HB
Soft annealed	200

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm³

Designations across standards

13 designations · 2 documented as identical

United States	3	Europe	1
S18235 This grade's own name	uns	X2CrMoTiS18-2 This grade's own name	din-en
S44401	uns		
444	aisi-sae	Spain	1
		F3123	une
France	3		
Z3CAT18	afnor	Japan	1
Z3CDFT18-02	afnor	SUS444	jis
Z3CDT18-02	afnor		
		Sweden	1
China	2	2326	ss
00Cr18Mo2	gb		
019Cr19Mo2NbTi	gb	Romania	1
		2TiMoCr180	stas

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 1.4523

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