

MATERIAL NUMBER 1.4521 · CLASS 1.4

S44400

Material no. 1.4521

also listed as X2CrMoTi18-2

Chemical composition, mechanical and physical property values, and 33 standard designations from 8 regions.

DENSITY**7.7** g/cm³**OTHER DESIGNATIONS****33** in 8 regions**PROPERTY VALUES****10** on file

Chemical composition

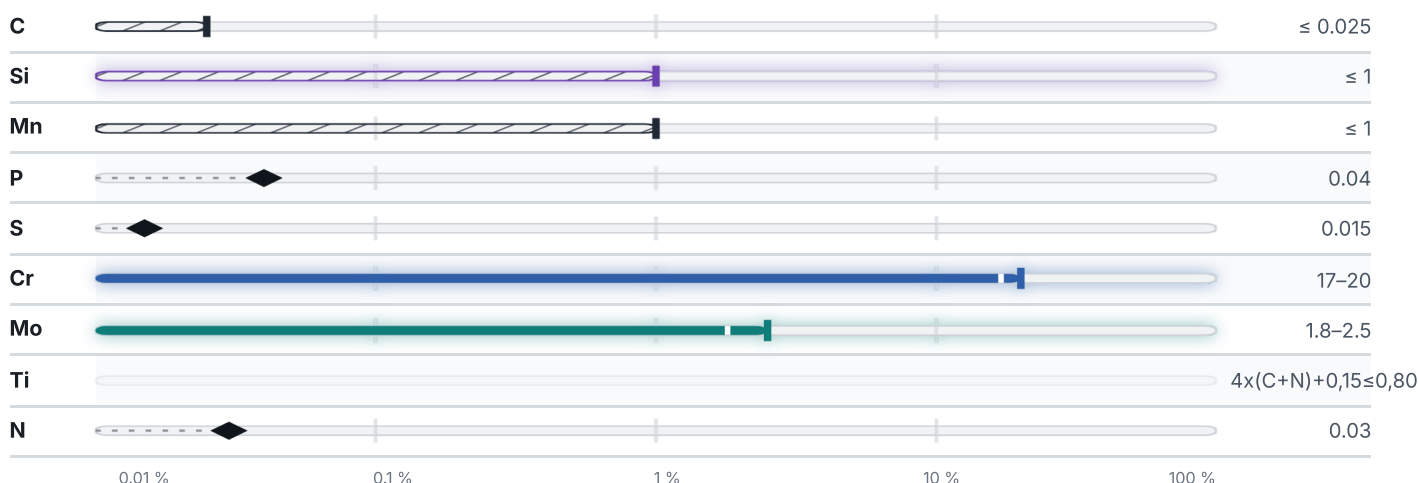
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 77.2 % ● Cr — 18.5 % ● Mo — 2.2 % ● Si — 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: Ni.

Mechanical properties

6 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	HB	HRB	HV
Plate/Sheet Hot-rolled	410	245	20	–	–	–
Hot-rolled	–	–	–	217	96	230

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³

Designations across standards

33 designations · 5 documented as identical

United States		18	Europe		3
S44300	This grade's own name	uns	1.4521		din-en
S44400	This grade's own name	uns	X1CrMoTi182		din-en
S44401		uns	X2CrMoTi18-2	This grade's own name	din-en
443	This grade's own name	aisi-sae			
444	This grade's own name	aisi-sae	Japan		
S44300		aisi-sae	SUS 444TB		jis
S44400		aisi-sae	SUS 444TP		jis
A1012		astm	SUS444		jis
A213		astm			
A240		astm	China		
A268		astm	00Cr18Mo2		gb
A276		astm	019Cr19Mo2NbTi		gb
A479		astm			
A480		astm	Spain		
A493		astm	F.3123		une
A580		astm			
A791		astm	Sweden		
A803		astm	2326		ss
France		4	Romania		1
Z3CAT18		afnor	2TiMoCr180		stas
Z3CDFT18-02		afnor			
Z3CDT18-02		afnor			
Z3CDT18-2		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 S44400

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

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ISSUED

Aug 20, 2026