

MATERIAL NUMBER 1.4521 · CLASS 1.4

Z3CDT18-2

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

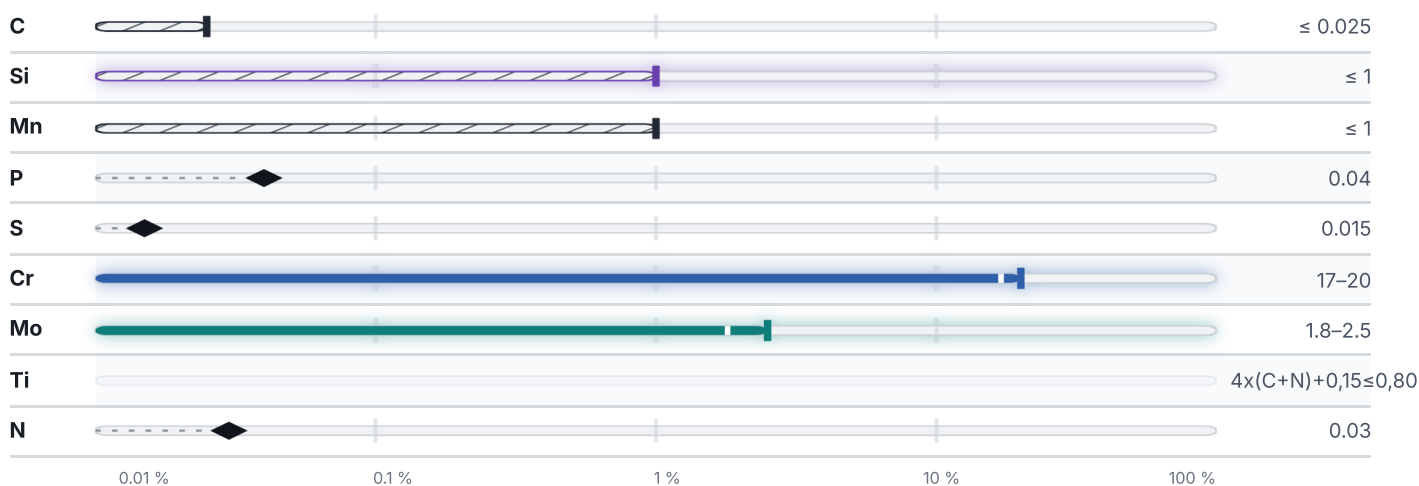
Mass fraction in %

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 States18		Europe3	
S44300	This grade's own nameuns	1.4521	din-en
S44400	This grade's own nameuns	X1CrMoTi182	din-en
S44401	uns	X2CrMoTi18-2	This grade's own namedin-en
443	This grade's own nameaisi-sae		
444	This grade's own nameaisi-sae	Japan3	
S44300	aisi-sae	SUS 444TB	jis
S44400	aisi-sae	SUS 444TP	jis
A1012	astm	SUS444	jis
A213	astm		
A240	astm	China2	
A268	astm	00Cr18Mo2	gb
A276	astm	019Cr19Mo2NbTi	gb
A479	astm		
A480	astm	Spain1	
A493	astm	F.3123	une
A580	astm		
A791	astm	Sweden1	
A803	astm	2326	ss
France4		Romania1	
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 Z3CDT18-2

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

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DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026