

MATERIAL NUMBER 1.4512 · CLASS 1.4

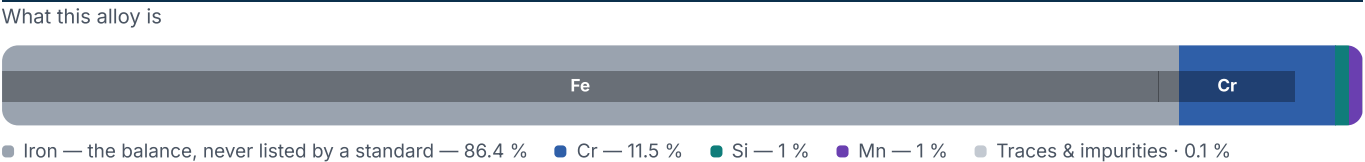
1.4512

Chemical composition, mechanical and physical property values, and 27 standard designations from 9 regions.

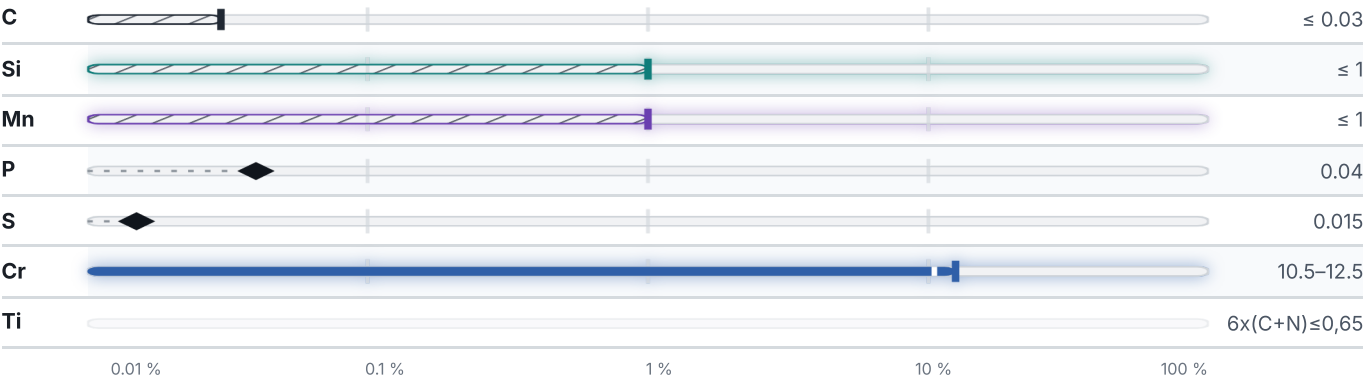
DENSITY 7.7 g/cm³	OTHER DESIGNATIONS 27 in 9 regions	PROPERTY VALUES 8 on file
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Chemical composition

Mass fraction in %



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, Mo.

Mechanical properties

3 values across 1 conditions

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A %
Plate/Sheet	360	175	22

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³

Designations across standards

27 designations · 4 documented as identical

United States	10	Europe	2
S40900 This grade's own name	uns	X2CrTi12 This grade's own name	din-en
409 This grade's own name	aisi-sae	X6CrTi12 This grade's own name	din-en
51409	aisi-sae		
S40900	aisi-sae	France	2
A1012	astm	Z3CT12	afnor
A268	astm	Z6CT12	afnor
A651	astm		
A791	astm	Italy	2
A803	astm	X2CrTi12	uni
TP409	astm	X6CrTi12	uni
Japan	5	Spain	1
SUH 409	jis	F.3121	une
SUH 409L	jis		
SUS 409LTB	jis	International	1
SUS 409TB	jis	X6CrTi12	iso
SUS409L	jis		
United Kingdom	3	Brazil	1
409S	bs	409	abnt
409S19	bs		
LW 19	bs		

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 1.4512

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