

MATERIAL NUMBER 1.4501 · CLASS 1.4

1.4501

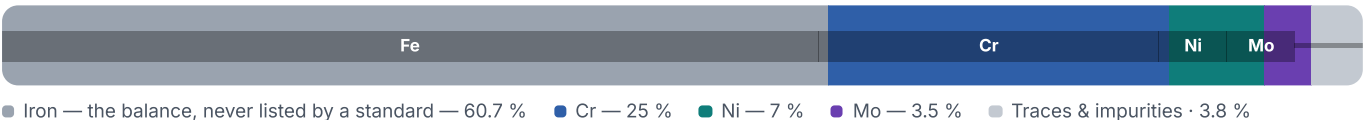
Chemical composition, mechanical and physical property values, and 36 standard designations from 7 regions.

DENSITY 7.9 g/cm ³	OTHER DESIGNATIONS 36 in 7 regions	PROPERTY VALUES 12 on file
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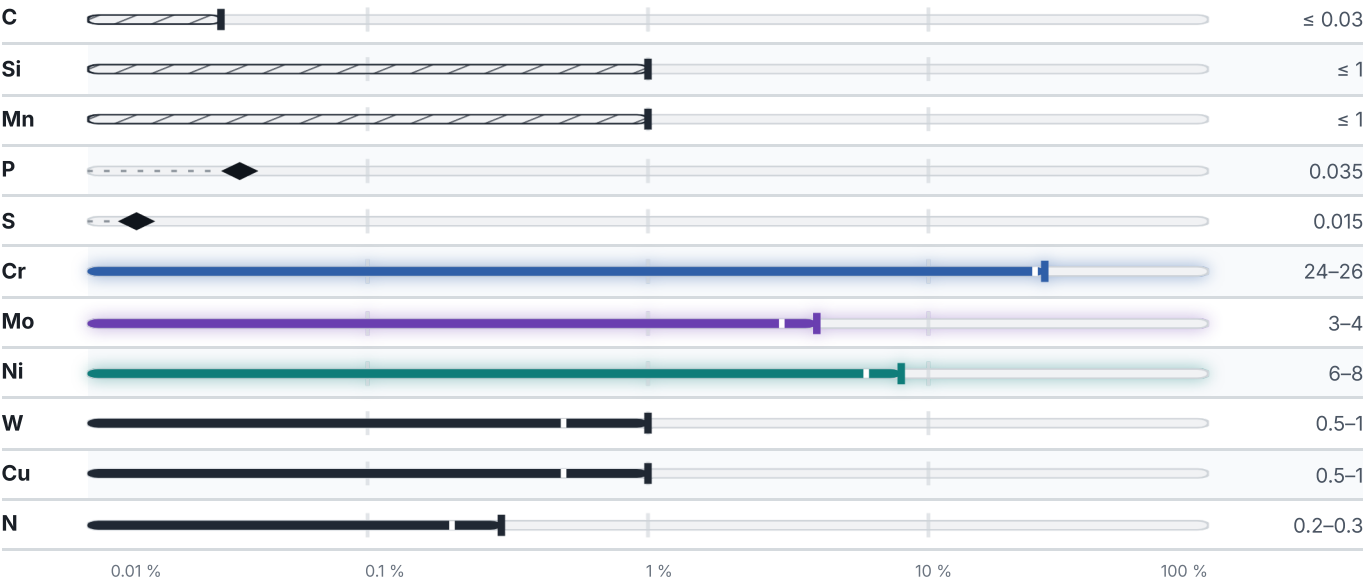
Chemical composition

Mass fraction in %

What this alloy is



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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Mechanical properties

2 values across 2 conditions

SOFT ANNEALED	HB
Soft annealed	290
SOLUTION ANNEALED	HB
Solution annealed	310

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.9	g/cm ³

Designations across standards

36 designations · 3 documented as identical

United States		26	Russia / CIS		4
S32750	This grade's own name	uns	02Ch25N7M3		gost
S32760	This grade's own name	uns	02Ch25N7M4		gost
S32750		aisi-sae	02X25H7M3		gost
S32760		aisi-sae	02X25H7M4		gost
2507		astm	France		2
25Cr-7Ni-Mo-N		astm			
A 781 Grade 6A		astm	Z3CND25.06Az		afnor
A182		astm	Z3CNDU25-06AZ		afnor
A182 F55		astm	Europe		1
A240		astm			
A276		astm	X2CrNiMoCuWN25-7-4	This grade's own name	din-en
A276 F55		astm	International		1
A314		astm			
A473		astm	CrNiMo25-7-4		iso
A479		astm	Italy		1
A479 F55		astm			
A790		astm	329S		uni
A815		astm	Czechia		1
CD3MWCuN		astm			
F53		astm	42 2942		csn
F55		astm			
J93380		astm			
S32750		astm			
S32760		astm			
S39275		astm			
S39276		astm			

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 1.4501
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

MATERIAL NO.

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ISSUED

Aug 20, 2026