

MATERIAL NUMBER 1.4501 · CLASS 1.4

X2CrNiMoCuWN25-7-4

Material no. 1.4501

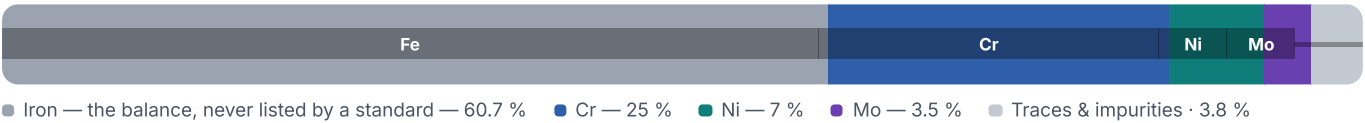
Chemical composition, mechanical and physical property values, and 36 standard designations from 7 regions.

DENSITY 7.9 g/cm³	OTHER DESIGNATIONS 36 in 7 regions	PROPERTY VALUES 12 on file
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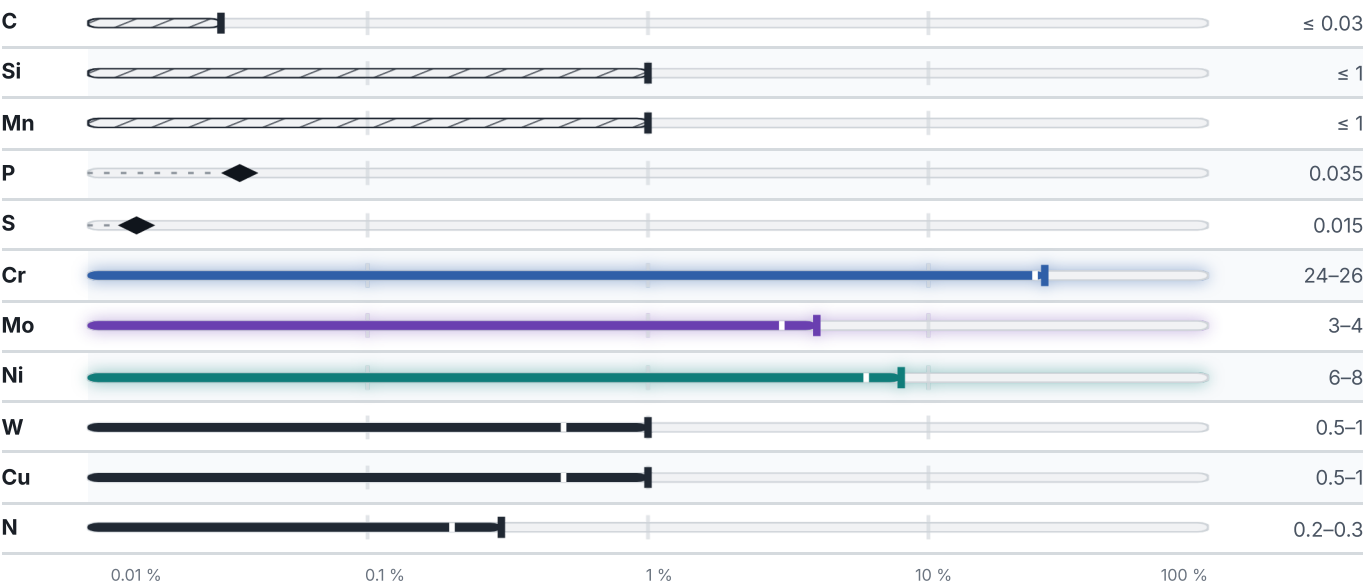
Chemical composition

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/cm³

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		
25Cr-7Ni-Mo-N	astm	France	2
A 781 Grade 6A	astm	Z3CND25.06Az	afnor
A182	astm	Z3CNDU25-06AZ	afnor
A182 F55	astm		
A240	astm	Europe	1
A276	astm	X2CrNiMoCuWN25-7-4	This grade's own name din-en
A276 F55	astm		
A314	astm	International	1
A473	astm	CrNiMo25-7-4	iso
A479	astm		
A479 F55	astm	Italy	1
A790	astm	329S	uni
A815	astm		
CD3MWCuN	astm	Czechia	1
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 X2CrNiMoCuWN25-7-4
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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1.4501

ISSUED
Aug 20, 2026