

MATERIAL NUMBER 1.4501 · CLASS 1.4

A182 F55

Material no. 1.4501

also listed as X2CrNiMoCuWN25-7-4

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

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

Chemical composition

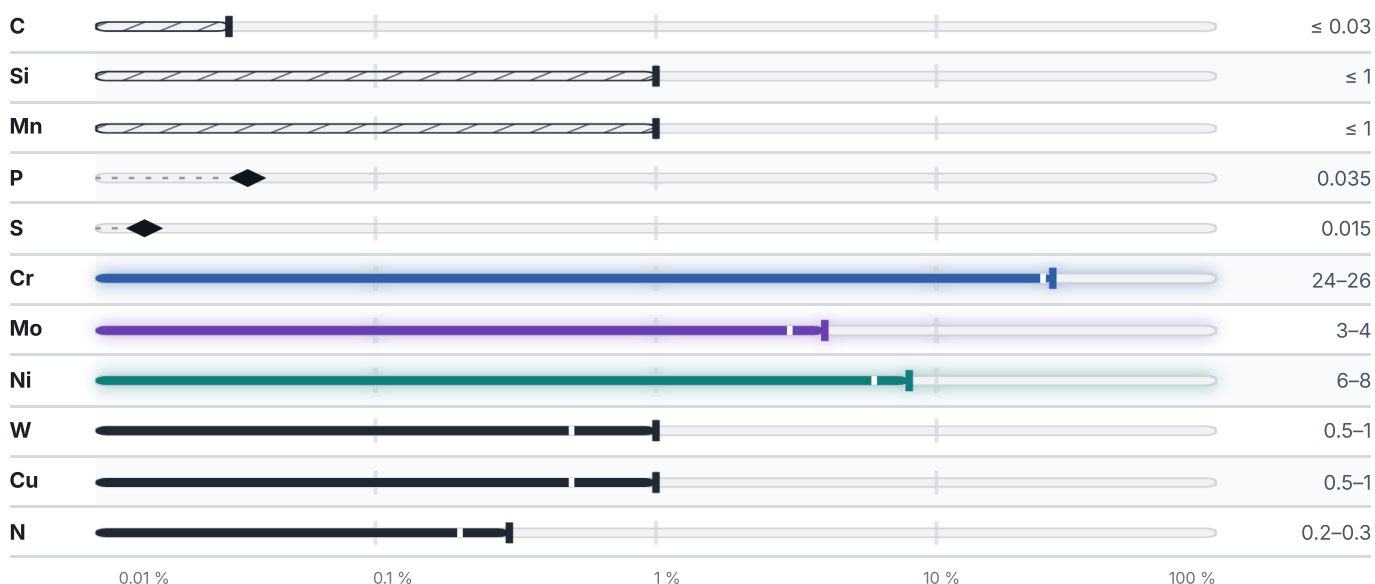
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 60.7 % ● Cr — 25 % ● Ni — 7 % ● Mo — 3.5 % ● Traces & impurities · 3.8 %

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

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 A182 F55
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

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ISSUED
Aug 20, 2026