

MATERIAL NUMBER 1.4501 · CLASS 1.4

A276 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

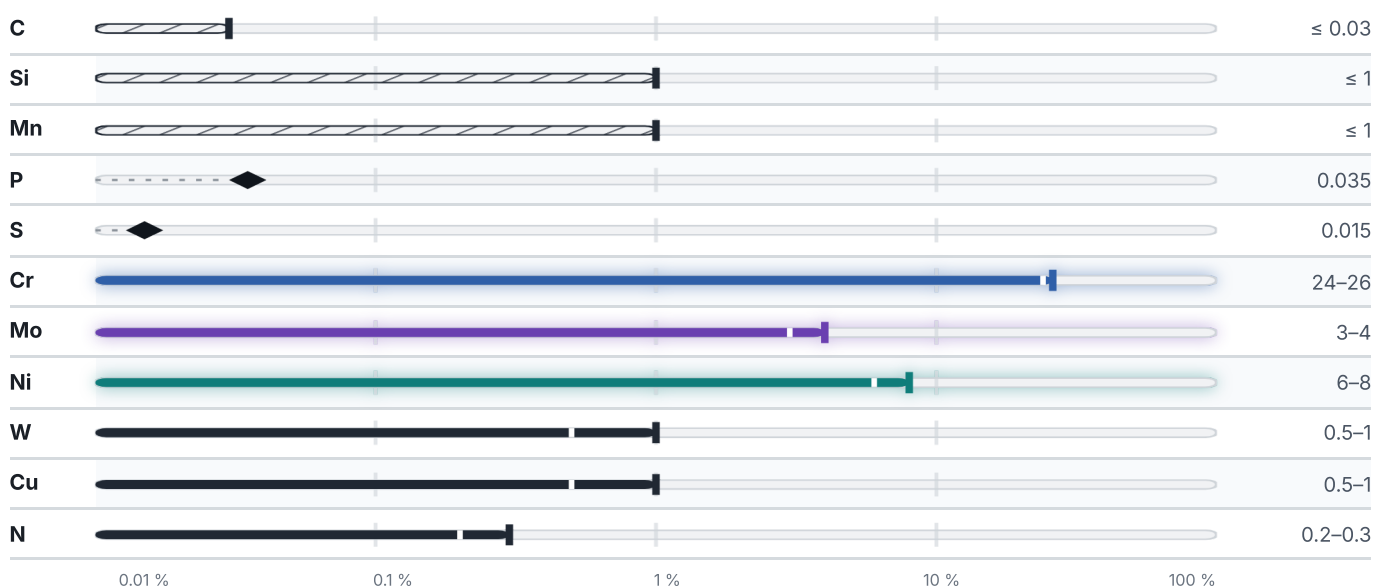
Mass fraction in %

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/cm ³

Designations across standards

36 designations · 3 documented as identical

United States		26	S32760	astm
S32750	This grade's own name	uns	S39275	astm
S32760	This grade's own name	uns	S39276	astm
S32750		aisi-sae		
S32760		aisi-sae		
2507		astm		
25Cr-7Ni-Mo-N		astm		
A 781 Grade 6A		astm		
A182		astm		
A182 F55		astm		
A240		astm		
A276		astm		
A276 F55		astm		
A314		astm		
A473		astm		
A479		astm		
A479 F55		astm		
A790		astm		
A815		astm		
CD3MWCuN		astm		
F53		astm		
F55		astm		
J93380		astm		
S32750		astm		

Russia / CIS		4
02Ch25N7M3		gost
02Ch25N7M4		gost
02X25H7M3		gost
02X25H7M4		gost
France		2
Z3CND25.06Az		afnor
Z3CNDU25-06AZ		afnor
Europe		1
X2CrNiMoCuWN25-7-4 This grade's own name		din-en
International		1
CrNiMo25-7-4		iso
Italy		1
329S		uni
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 A276 F55
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

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GRADE SEARCH
Search all grades

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ISSUED
Aug 20, 2026