

MATERIAL NUMBER 1.4449 · CLASS 1.4

1.4449

Chemical composition, mechanical and physical property values, and 35 standard designations from 6 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 35 in 6 regions	PROPERTY VALUES 11 on file
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Chemical composition

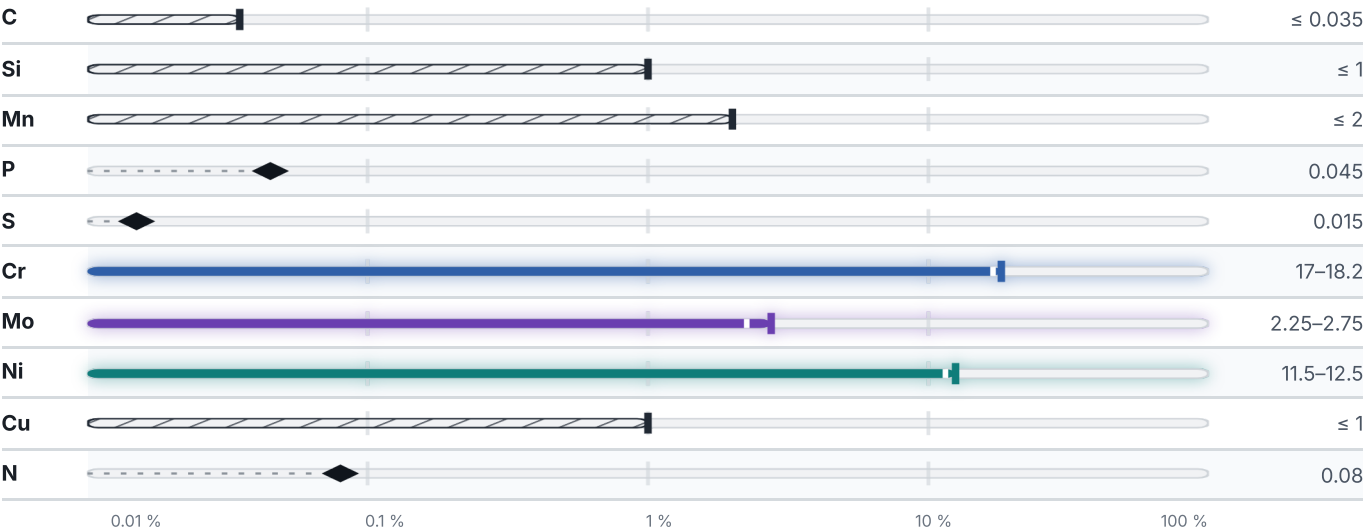
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 63.7 % ● Cr — 17.6 % ● Ni — 12 % ● Mo — 2.5 % ● Traces & impurities · 4.2 %

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

35 designations · 3 documented as identical

United States27		Japan4	
S31700	This grade's own nameuns	SUS 317	jis
30317	aisi-sae	SUS F 317	jis
317	This grade's own nameaisi-sae	SUS317TB	jis
S31700	aisi-sae	SUS317TP	jis
A1012	astm	Europe1	
A1049	astm		
A182	astm	X3CrNiMo18-12-3	This grade's own namedin-en
A213	astm	United Kingdom1	
A240	astm		
A249	astm	317S16	bs
A269	astm	France1	
A276	astm		
A312	astm	Z3CND18-12-02	afnor
A314	astm	China1	
A409	astm		
A473	astm	0Cr19Ni13Mo3	gb
A478	astm		
A479	astm		
A511	astm		
A554	astm		
A580	astm		
A632	astm		
A813	astm		
A814	astm		
A943	astm		
A988	astm		
F899	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 1.4449

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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ISSUED

Aug 20, 2026