

MATERIAL NUMBER 1.4919 · CLASS 1.4

316 S 51

Material no. 1.4919

also listed as X6CrNiMo17-13

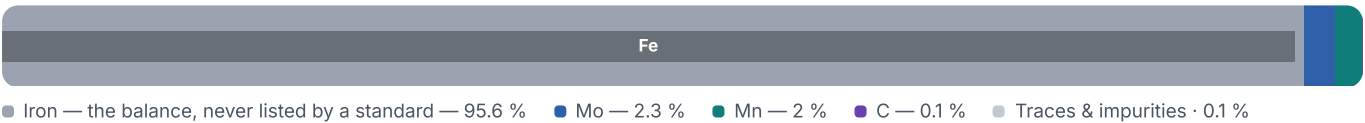
Chemical composition, mechanical and physical property values, and 13 standard designations from 7 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 13 in 7 regions	PROPERTY VALUES 11 on file
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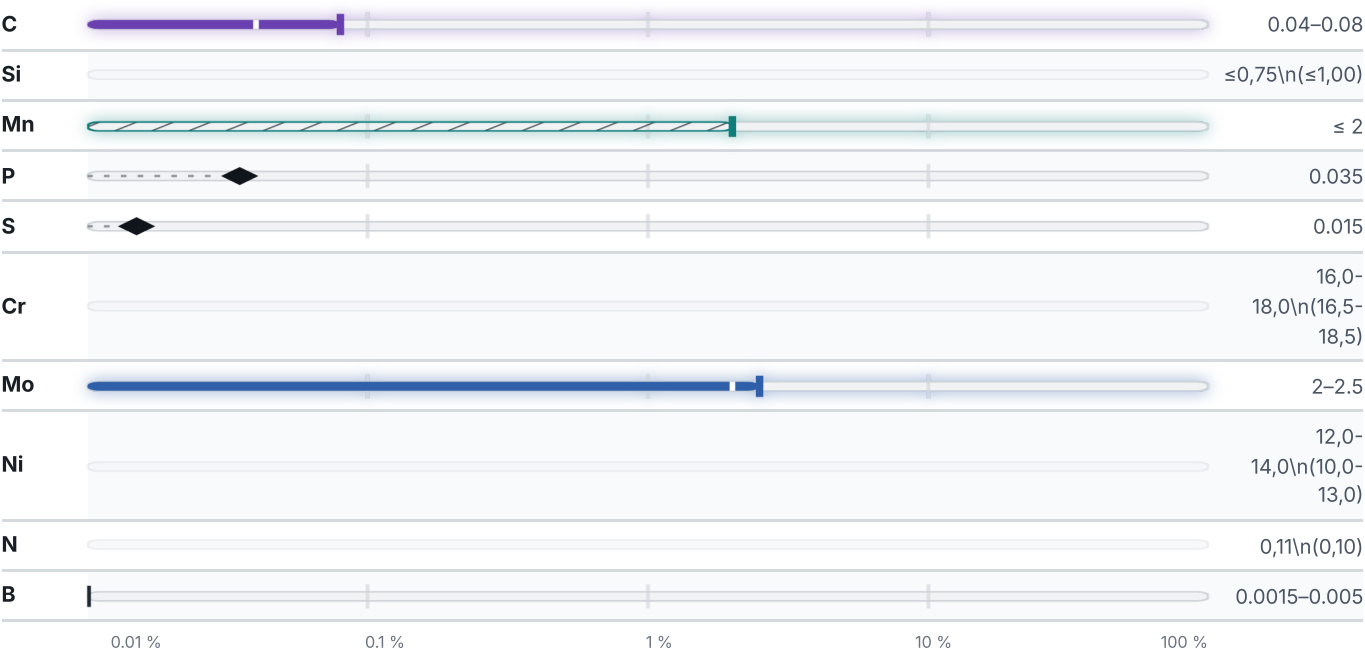
Chemical composition

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Si, Ni, Cr.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

13 designations · 4 documented as identical

United States3			United Kingdom2		
S31609	This grade's own name	uns	316 S 51		bs
316H	This grade's own name	aisi-sae	316 S 53		bs
S31609		aisi-sae			
Japan3			France1		
SUS 316HFB		jis	Z6CND17-13B		afnor
SUS 316HTB		jis			
SUS 316HTP		jis			
Europe2			Czechia1		
X6CrNiMo17-13	This grade's own name	din-en	17341		csn
X6CrNiMoB17-12-2	This grade's own name	din-en			
			Slovakia1		
			17 341		stn

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 316 S 51

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

Start an enquiry

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.4919	Aug 20, 2026