

MATERIAL NUMBER 1.4919 · CLASS 1.4

316 S 53

Material no. 1.4919

also listed as X6CrNiMo17-13

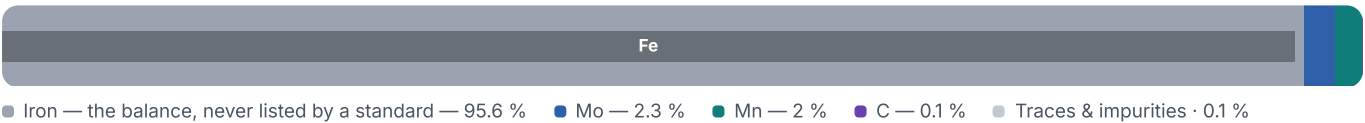
Chemical composition, mechanical and physical property values, and 13 standard designations from 7 regions.

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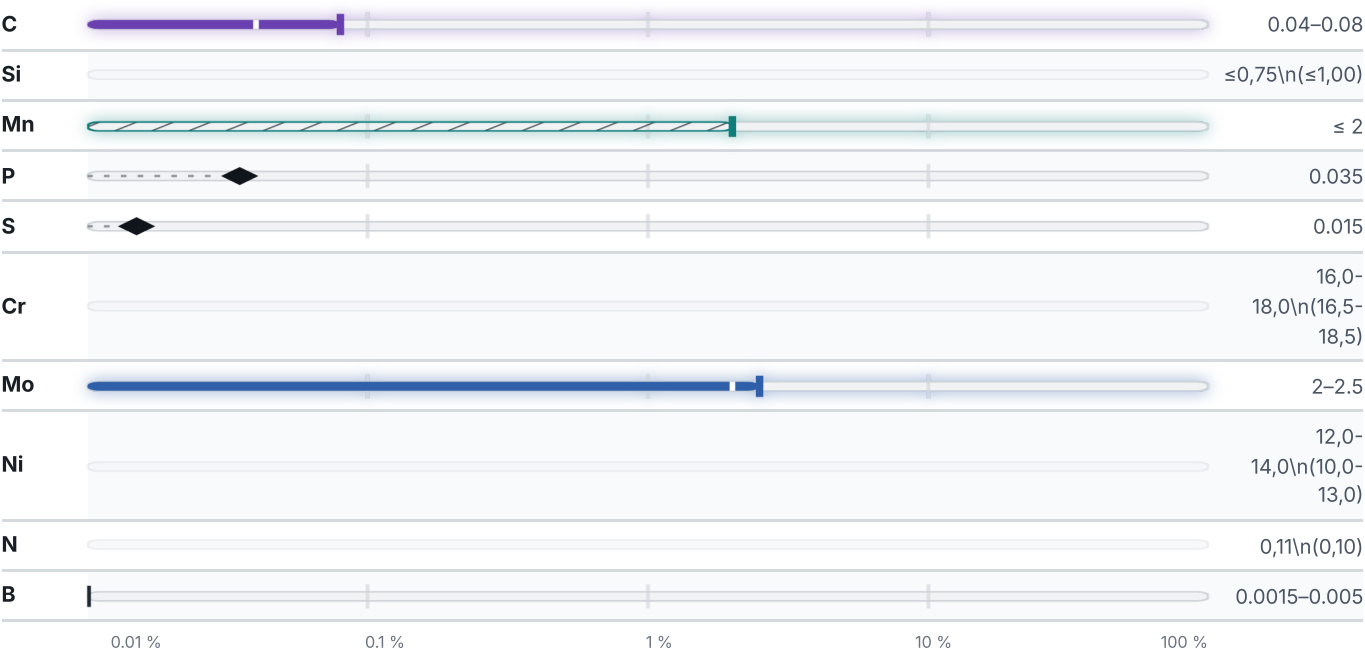
Chemical composition

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

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 53

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