

MATERIAL NUMBER 1.4319 · CLASS 1.4

X3CrNiN17-8

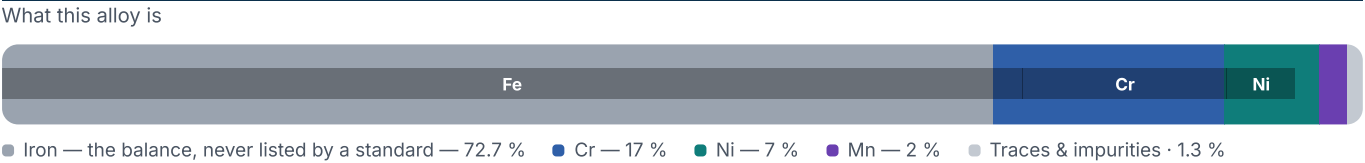
Material no. 1.4319

Chemical composition, mechanical and physical property values, and 23 standard designations from 10 regions.

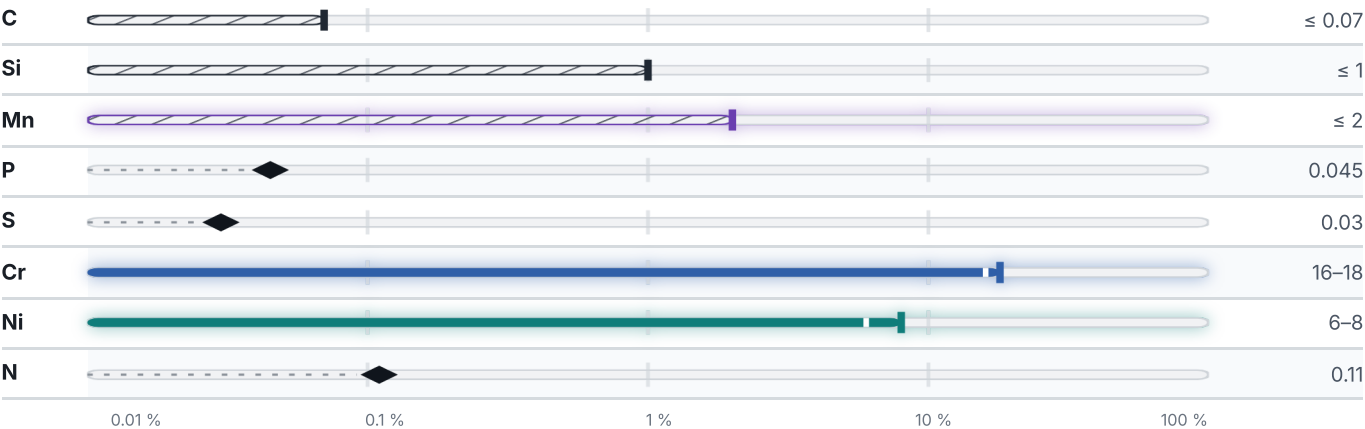
DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 23 in 10 regions	PROPERTY VALUES 9 on file
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Chemical composition

Mass fraction in %



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: Mo.

Mechanical properties		1 values across 1 conditions
SOFT ANNEALED	HB	
Soft annealed	215	

Physical properties			1 values
PROPERTY	VALUE	UNIT	
Density	7.85	g/cm³	

Designations across standards			23 designations · 4 documented as identical
United States		9	United Kingdom1
S30100	This grade's own name	uns	302 S 25bs
301	This grade's own name	aisi-sae	
302		aisi-sae	France1
30301		aisi-sae	Z12CN18-09afnor
A240		astm	
A264		astm	Japan1
A554		astm	SUS301jis
A666		astm	
F899		astm	Russia / CIS1
			12Ch18N9gost
United States / Aerospace		5	Italy1
5517		ams	X8CrNi1910uni
5518		ams	
5519		ams	
5901		ams	Sweden1
5902		ams	23 31ss
Europe		2	Brazil1
X3CrNi17-8	This grade's own name	din-en	301abnt
X5CrNi17-7	This grade's own name	din-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 X3CrNi17-8

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	1.4319	Aug 20, 2026