

MATERIAL NUMBER 1.4319 · CLASS 1.4

X5CrNi17-7

Material no. 1.4319

also listed as X3CrNiN17-8

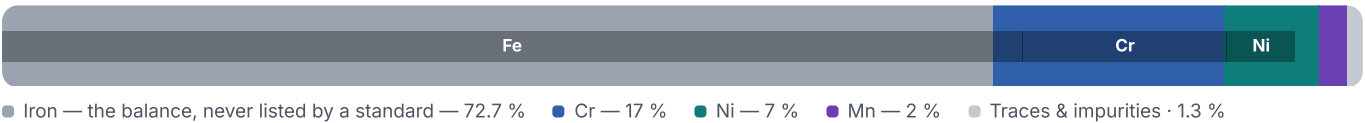
Chemical composition, mechanical and physical property values, and 23 standard designations from 10 regions.

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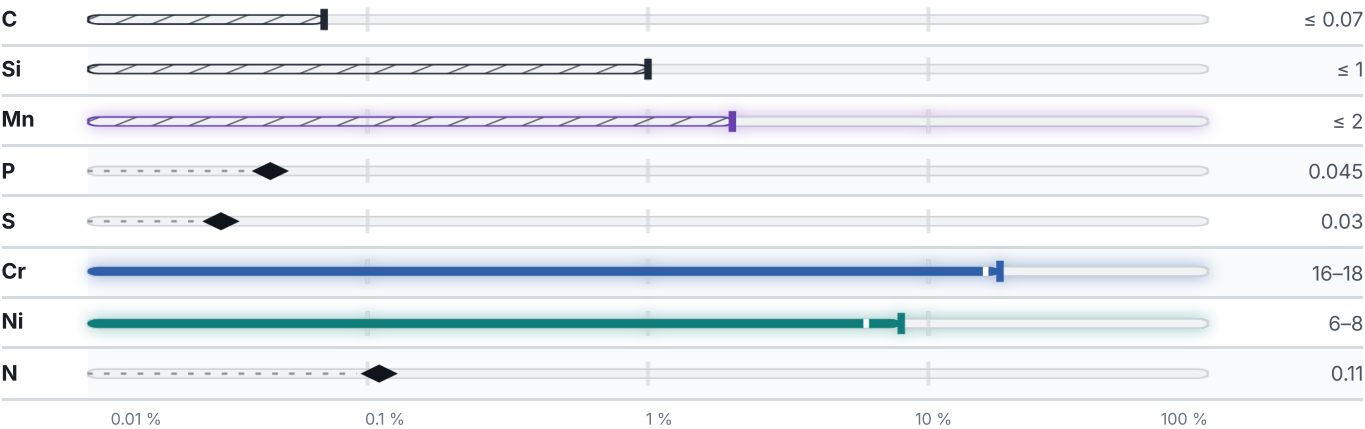
Chemical composition

Mass fraction in %

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: 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/cm ³

Designations across standards

23 designations · 4 documented as identical

United States	9	United Kingdom	1
S30100 This grade's own name	uns	302 S 25	bs
301 This grade's own name	aisi-sae	France	1
302	aisi-sae	Z12CN18-09	afnor
30301	aisi-sae	Japan	1
A240	astm	SUS301	jis
A264	astm	Russia / CIS	1
A554	astm	12Ch18N9	gost
A666	astm	Italy	1
F899	astm	X8CrNi1910	uni
United States / Aerospace	5	Sweden	1
5517	ams	23 31	ss
5518	ams	Brazil	1
5519	ams	301	abnt
5901	ams		
5902	ams		
Europe	2		
X3CrNi17-8 This grade's own name	din-en		
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 X5CrNi17-7

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