

MATERIAL NUMBER 1.4029 · CLASS 1.4

X33CrS13

Material no. 1.4029

also listed as X29CrS13

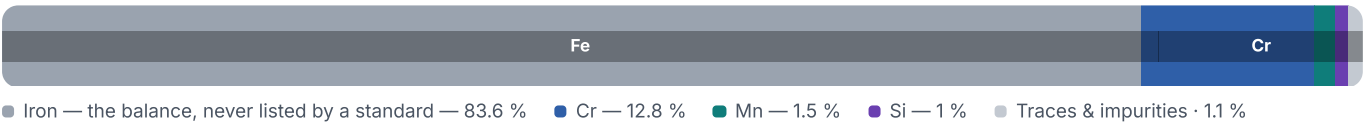
Chemical composition, mechanical and physical property values, and 20 standard designations from 9 regions.

DENSITY 7.7 g/cm³	OTHER DESIGNATIONS 20 in 9 regions	PROPERTY VALUES 8 on file
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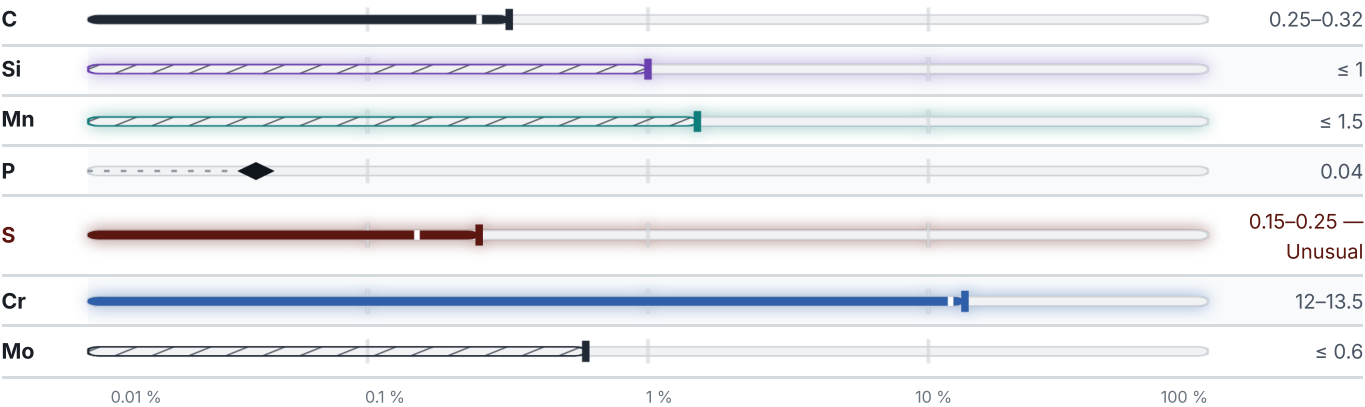
Chemical composition

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: Ni.

Mechanical properties

1 values across 1 conditions

SOFT ANNEALED	HB
Soft annealed	245

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Annealing	Temperature not stated	—

Designations across standards

20 designations · 2 documented as identical

United States		9	Poland		2
S42020		uns	3H13		pn
420F		aisi-sae	3H14		pn
51420F		aisi-sae	United Kingdom		1
A484		astm	420S45		bs
A582		astm	France		1
A895		astm	Z33C13		afnor
F116		astm	United States / Aerospace		1
F1613		astm	5620		ams
F899		astm	Japan		1
Europe		2	SUS 420F		jis
X29CrS13	This grade's own name	din-en	China		1
X33CrS13	This grade's own name	din-en	Y3Cr13		gb
Russia / CIS		2			
30Ch13		gost			
30Kh13		gost			

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 X33CrS13

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

[Start an enquiry](#)

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026