

MATERIAL NUMBER 1.4038 · CLASS 1.4

X52Cr13

Material no. 1.4038

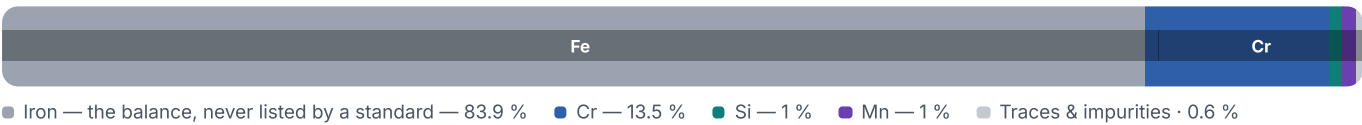
Chemical composition, mechanical and physical property values, and 16 standard designations from 4 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 16 in 4 regions	PROPERTY VALUES 7 on file
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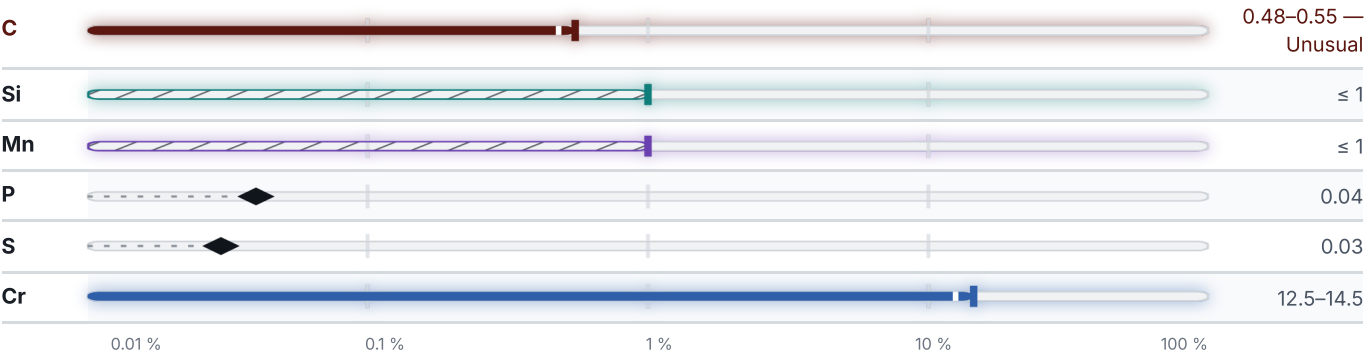
Chemical composition

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, Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

16 designations · 1 documented as identical

United States	12	United States / Aerospace	2
S42000	uns	5506	ams
420	aisi-sae	5621	ams
51420	aisi-sae		
A1049	astm	Europe	1
A176	astm	X52Cr13 This grade's own name	din-en
A182	astm		
A276	astm	Brazil	1
A314	astm	420	abnt
A473	astm		
A580	astm		
F1079	astm		
F2215	astm		

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 X52Cr13

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	1.4038	Aug 20, 2026