

MATERIAL NUMBER 1.3541 · CLASS 1.3

X45Cr13

Material no. 1.3541

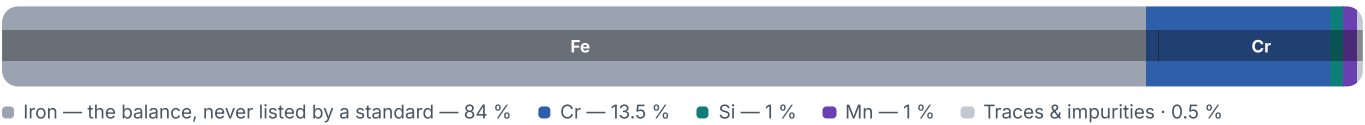
Chemical composition, mechanical and physical property values, and 17 standard designations from 8 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 17 in 8 regions	PROPERTY VALUES 7 on file
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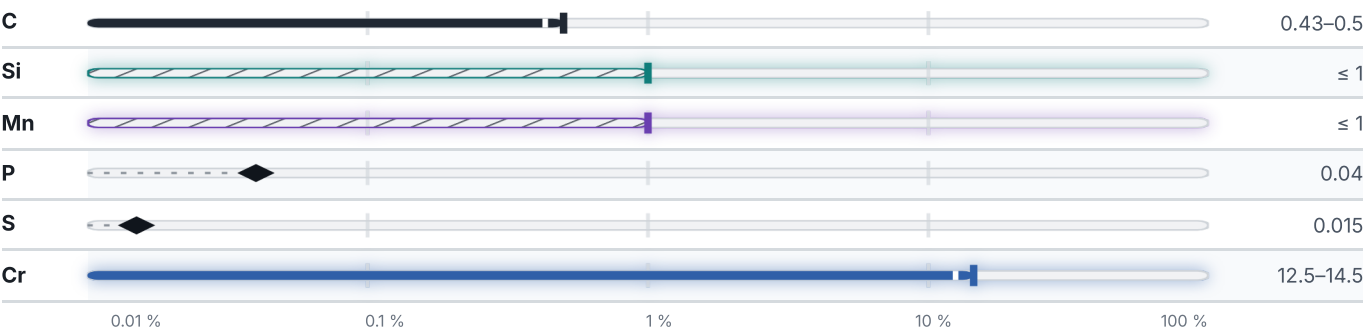
Chemical composition

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

17 designations · 3 documented as identical

United States7		United Kingdom1	
S42000	uns	3S62	bs
420	aisi-sae	France1	
A276	astm	Z20C13afnor	
A314	astm	Russia / CIS1	
A484	astm	40Ch13gost	
A580	astm	Czechia1	
A756B50 X47Cr14	astm	Slovakia1	
United States / Aerospace3		17 029stn	
5506	ams		
5620	ams		
5621	ams		
Europe2			
X45Cr13	This grade's own name		
X47Cr14	This grade's own name		

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 X45Cr13

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	1.3541	Aug 20, 2026