

MATERIAL NUMBER 1.3541 · CLASS 1.3

X47Cr14

Material no. 1.3541

also listed as X45Cr13

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
------------------------------	--	-------------------------------------

Chemical composition

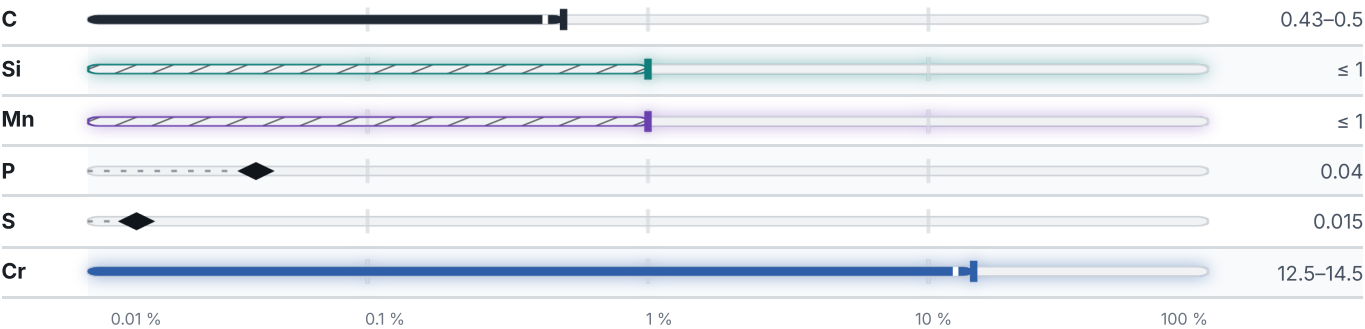
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 84 % ● Cr — 13.5 % ● Si — 1 % ● Mn — 1 % ● Traces & impurities · 0.5 %

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 States		7	United Kingdom		1
S42000		uns	3S62		bs
420		aisi-sae	France		
A276		astm	1		
A314		astm	Z20C13		afnor
A484		astm	Russia / CIS		
A580		astm	1		
A756B50 X47Cr14	This grade's own name	astm	40Ch13		gost
United States / Aerospace		3	Czechia		1
5506		ams	17029		csn
5620		ams	Slovakia		
5621		ams	1		
Europe		2	17 029		stn
X45Cr13	This grade's own name	din-en			
X47Cr14	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 X47Cr14

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