

MATERIAL NUMBER 1.7045 · CLASS 1.7

1.7045

Chemical composition, mechanical and physical property values, and 14 standard designations from 10 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 14 in 10 regions	PROPERTY VALUES 7 on file
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Chemical composition

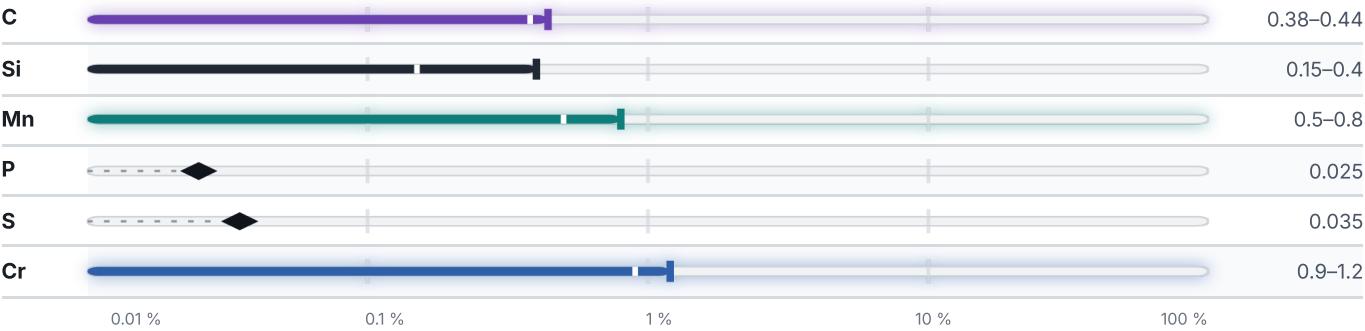
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 97.6 % ● Cr — 1.1 % ● Mn — 0.7 % ● C — 0.4 % ● Traces & impurities · 0.3 %

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/cm ³

Designations across standards

14 designations · 1 documented as identical

Spain	3	United Kingdom	1
42Cr4	une	530A40	bs
F.1202	une		
F.1202-42Cr4	une	France	1
		42C4TS	afnor
Europe	2	Japan	1
1.7045	din-en	SCr440	jis
42Cr4	din-en		
		China	1
Czechia	2	40Cr	gb
14140	csn		
14148VN	csn	Russia / CIS	1
		40Ch	gost
United States	1		
5140	aisi-sae	Sweden	1
		2245	ss

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 1.7045

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	1.7045	Aug 20, 2026