

MATERIAL NUMBER 1.7007 · CLASS 1.7

50B40H

Material no. 1.7007

also listed as 37CrB1

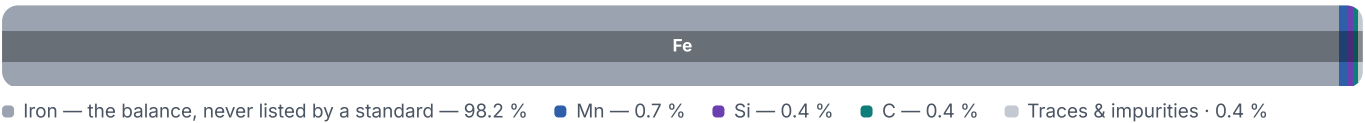
Chemical composition, mechanical and physical property values, and 8 standard designations from 4 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 8 in 4 regions	PROPERTY VALUES 8 on file
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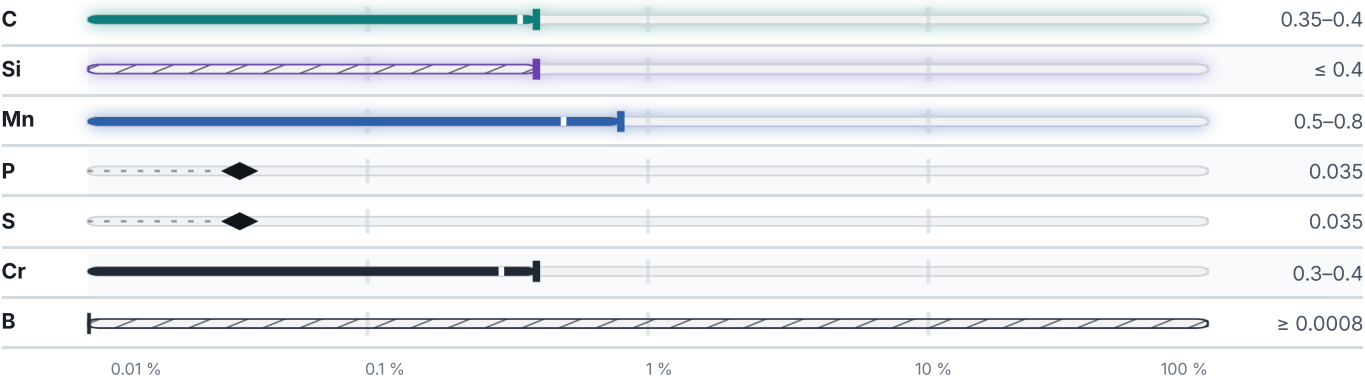
Chemical composition

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, Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—

Designations across standards

8 designations · 6 documented as identical

United States		4	Europe		2
H50401	This grade's own name	uns	37CrB1	This grade's own name	din-en
50B40	This grade's own name	aisi-sae	38MnB5		din-en
50B40H	This grade's own name	aisi-sae	United Kingdom / France		1
50B40RH	This grade's own name	aisi-sae	B 50401	This grade's own name	bsi-afnor
			China		1
			40MnB		gb

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 50B40H

[Start an enquiry](#)

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

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

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ISSUED

Aug 20, 2026