

MATERIAL NUMBER 1.7138 · CLASS 1.7

50B50H

Material no. 1.7138

also listed as 52MnCrB3

Chemical composition, mechanical and physical property values, and 9 standard designations from 4 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 9 in 4 regions	PROPERTY VALUES 8 on file
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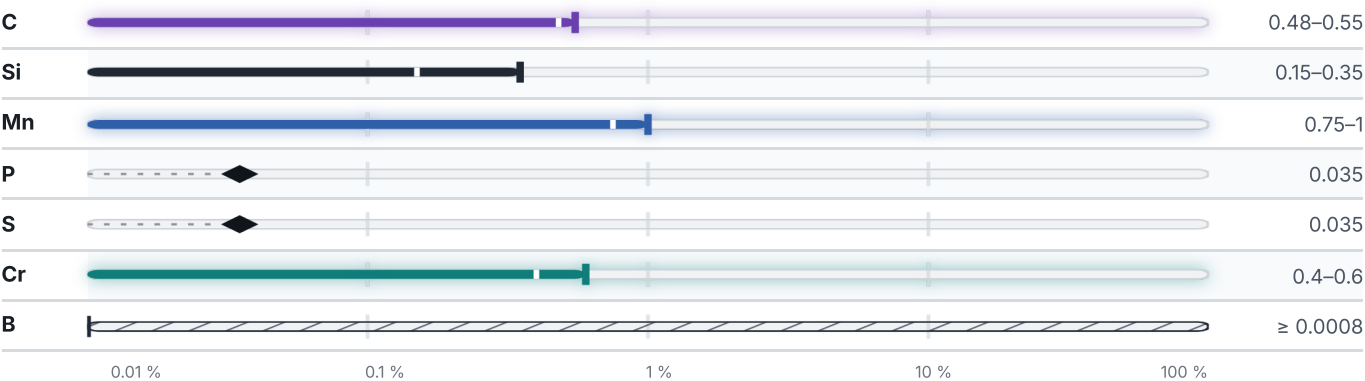
Chemical composition

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/cm³

Designations across standards

9 designations · 5 documented as identical

United States6		Europe1	
G50501	This grade's own nameuns	52MnCrB3	This grade's own namedin-en
G51601	uns	International1	
H50501	This grade's own nameuns		
50B50	This grade's own nameaisi-sae	60CrB3	iso
50B50H	This grade's own nameaisi-sae	Japan1	
51B60	aisi-sae		
		SUP11A	jis

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 50B50H

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	1.7138	Aug 20, 2026