

MATERIAL NUMBER 1.7182 · CLASS 1.7

27MnCrB5-2

Material no. 1.7182

Chemical composition, mechanical and physical property values, and 3 standard designations from 2 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	3 in 2 regions	8 on file

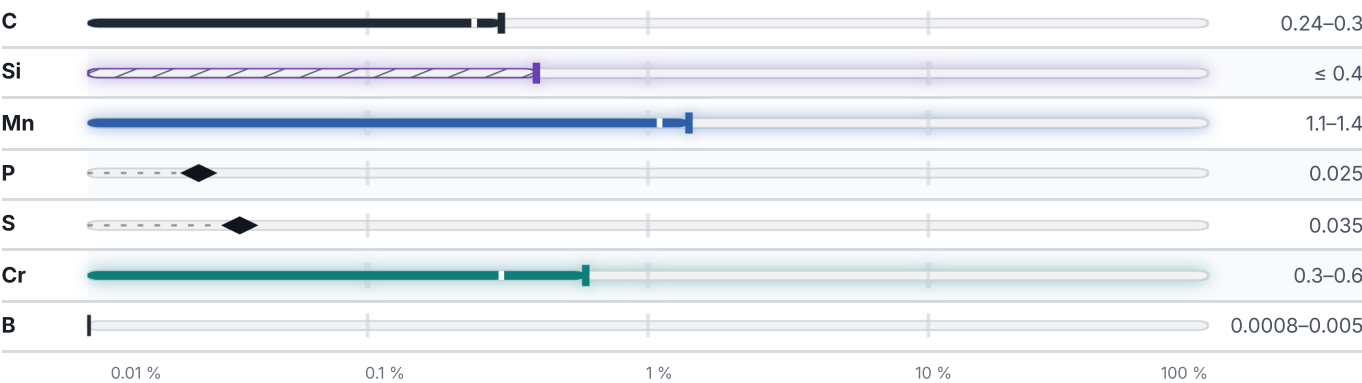
Chemical composition

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.

Mechanical properties

3 values across 1 conditions

QUENCHED AND TEMPERED · ROUND PRODUCTS		A
		% · Lo = 5,65 √So
≤ 16		14
16 – 40		14
40 – 100		15

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

3 designations · 1 documented as identical

France	2	Europe	1
28MCB5	afnor	27MnCrB5-2	This grade's own name
32MCB5	afnor		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 27MnCrB5-2

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	1.7182	Aug 20, 2026