SteelEquivalents.com

Material datasheet
As of Aug 15, 2026

52CrMnMoV

also listed as 52CrMoV4

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

OTHER DESIGNATIONS	PROPERTY VALUES
3 in 3 regions	10 on file

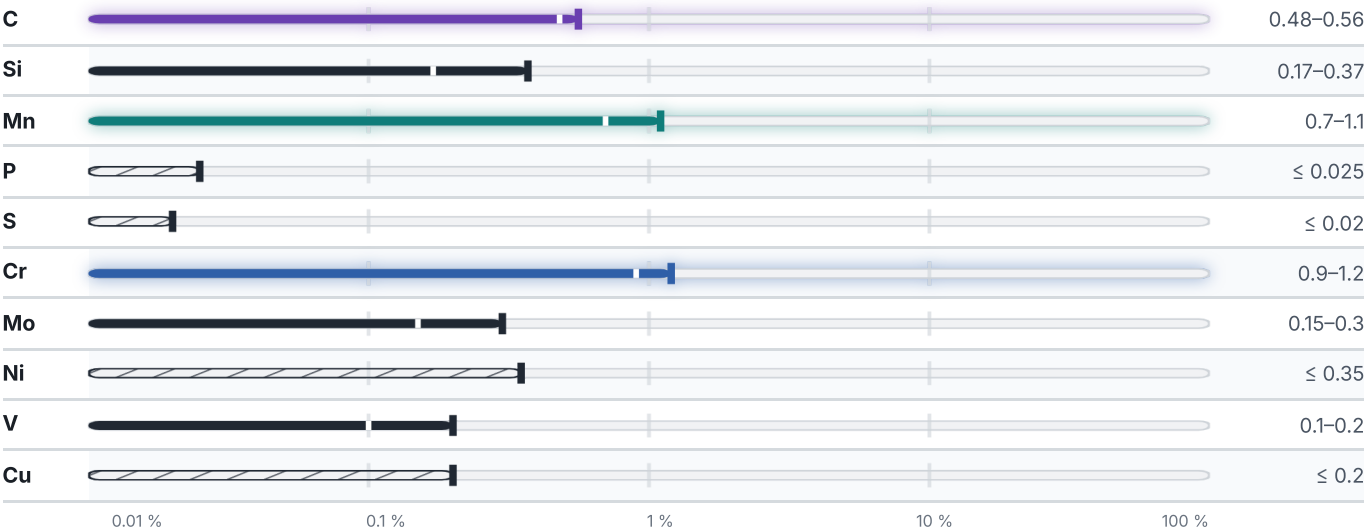
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 96.3 % · Cr — 1.1 % · Mn — 0.9 % · C — 0.5 % · Traces & impurities · 1.2 %

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

computed from composition · °C

PREDICTED AE3	PREDICTED AE1	PREDICTED ACM	PREDICTED BS
747 °C	739 °C	707 °C	508 °C

Heat treatment

3 regimes

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

Designations across standards

3 designations · 1 documented as identical

Europe 1

52CrMoV4	din-en

China 1

52CrMnMoV This grade's own name	gb

International 1

52CrMoV4	iso

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 52CrMnMoV

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

Start an enquiry

DATASHEET ONLINE
View the material page

GRADE SEARCH
Search all grades

MATERIAL NO.
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ISSUED
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