

MATERIAL NUMBER 1.2738 · CLASS 1.2

40CrMnNiMo8-6-1

Material no. 1.2738

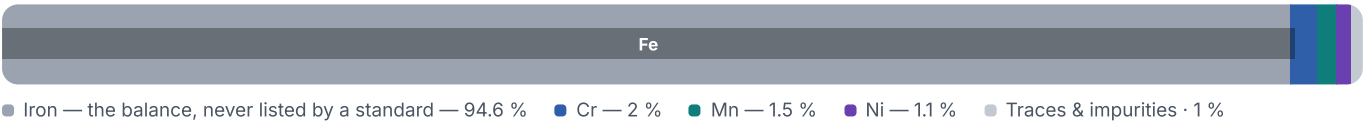
Chemical composition, mechanical and physical property values, and 4 standard designations from 1 regions.

DENSITY 7.8 g/cm³	OTHER DESIGNATIONS 4 in 1 regions	PROPERTY VALUES 9 on file
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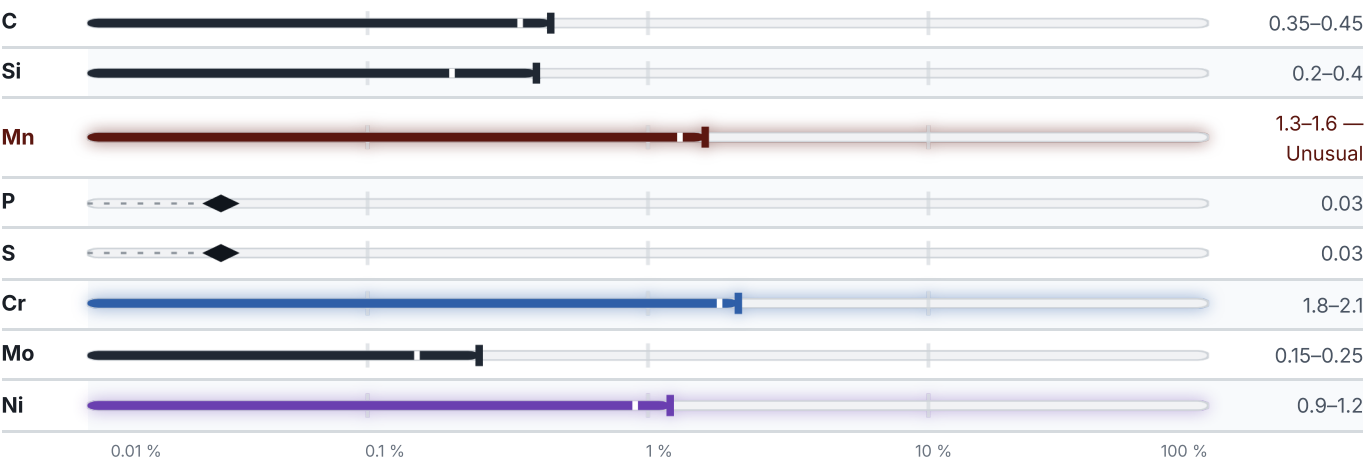
Chemical composition

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

computed from composition · °C

PREDICTED AE3 744 °C	PREDICTED AE1 741 °C	PREDICTED ACM 672 °C	PREDICTED BS 455 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.8	g/cm³

Designations across standards

4 designations · 2 documented as identical

Europe	4
1.2312	din-en
40CrMnMoS8-6	din-en
40CrMnNiMo8-6-1	This grade's own name din-en
40CrMnNiMo8-6-4	This grade's own name 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 40CrMnNiMo8-6-1

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	1.2738	Aug 20, 2026