

MATERIAL NUMBER 1.5414 · CLASS 1.5

18MnMo4-5

Material no. 1.5414

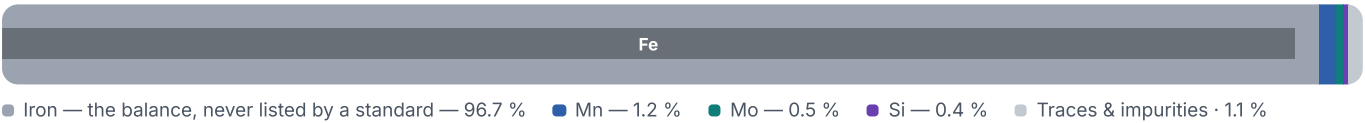
Chemical composition, mechanical and physical property values, and 4 standard designations from 2 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 4 in 2 regions	PROPERTY VALUES 11 on file
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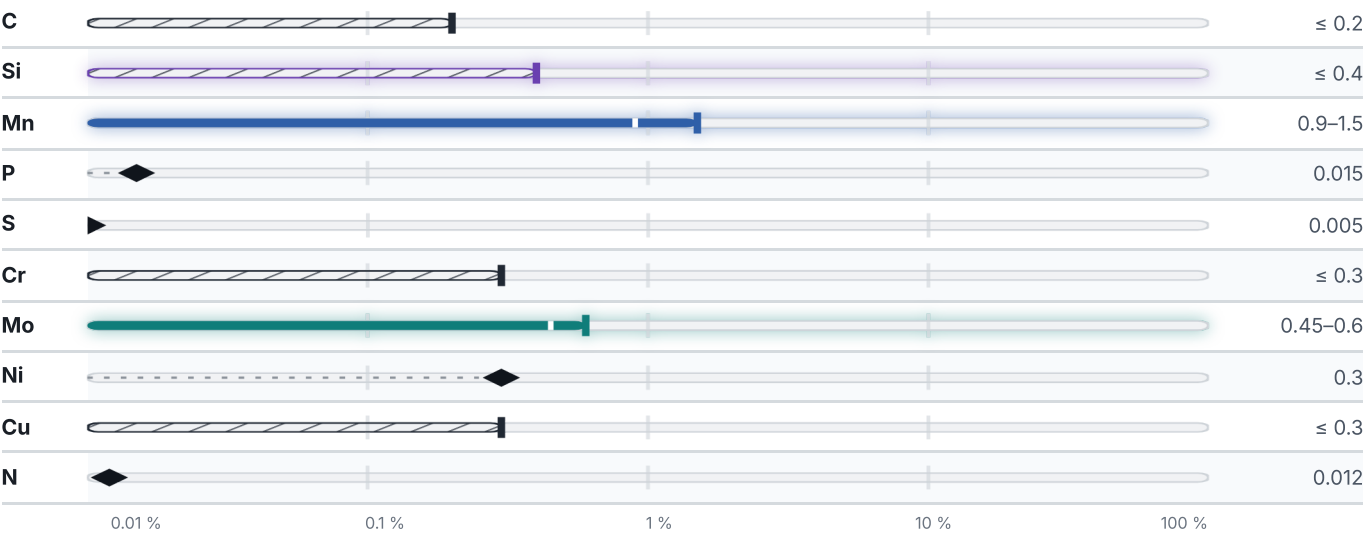
Chemical composition

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 810 °C	PREDICTED AE1 714 °C	PREDICTED ACM 440 °C	PREDICTED BS 534 °C
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Mechanical properties

5 values across 1 conditions

CONDITION · DIMENSION	REH N/mm ²	RM N/mm ²
≤ 60	345	–
60 – 150	325	–
≤ 150	–	510–650
150 – 250	310	480–620

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

4 designations · 2 documented as identical

United States		3	Europe		1
K12021	This grade's own name	uns	18MnMo4-5	This grade's own name	din-en
K12022		uns			
K12039		uns			

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 18MnMo4-5

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	1.5414	Aug 20, 2026