

MATERIAL NUMBER 1.7244 · CLASS 1.7

18CrMo4-1

Material no. 1.7244

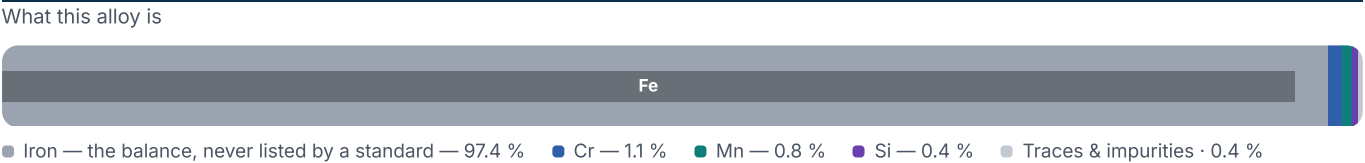
also listed as 18CrMoS4

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

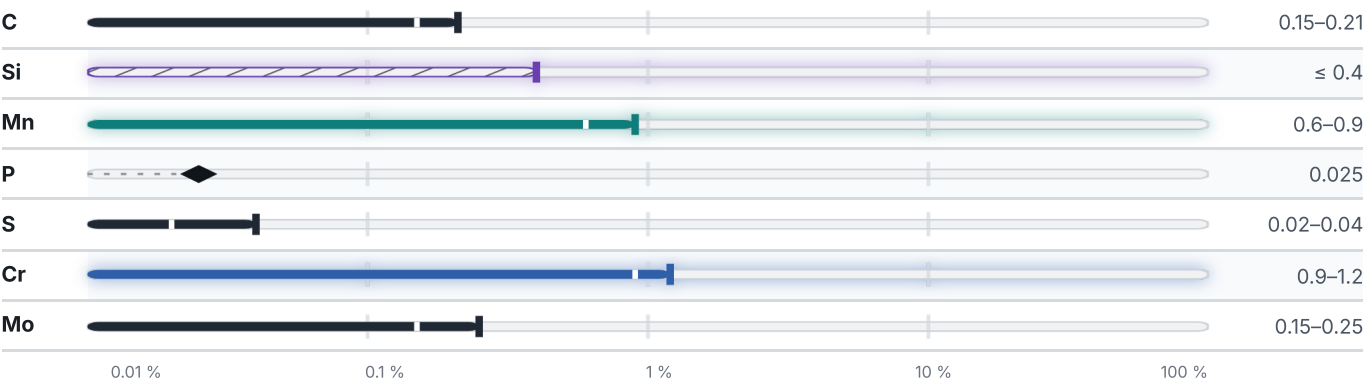
DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 3 in 3 regions	PROPERTY VALUES 8 on file
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Chemical composition

Mass fraction in %



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.

Mechanical properties

4 values across 4 conditions

SOFT ANNEALED	HB
Soft annealed	207
TREATED TO HARDNESS RANGE	HB
Treated to hardness range	156–207
TREATED TO FERRITE-PEARLITE STRUCTURE AND HARDNESS RANGE	HB
Treated to ferrite-pearlite structure and hardness range	140–187
CONDITION · DIMENSION	RM N/mm ²
200	1100

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

3 designations · 1 documented as identical

Europe	1	International	1
18CrMoS4	This grade's own name din-en	18CrMoS4	iso
Spain	1		
18CrMo4-1	une		

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 18CrMo4-1

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

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ISSUED

Aug 20, 2026