

MATERIAL NUMBER 1.7375 · CLASS 1.7

12CrMo9-10

Material no. 1.7375

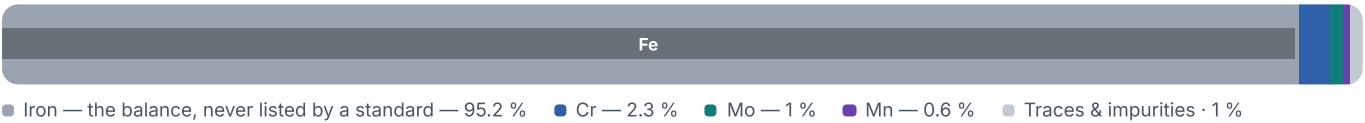
Chemical composition, mechanical and physical property values, and 18 standard designations from 6 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 18 in 6 regions	PROPERTY VALUES 12 on file
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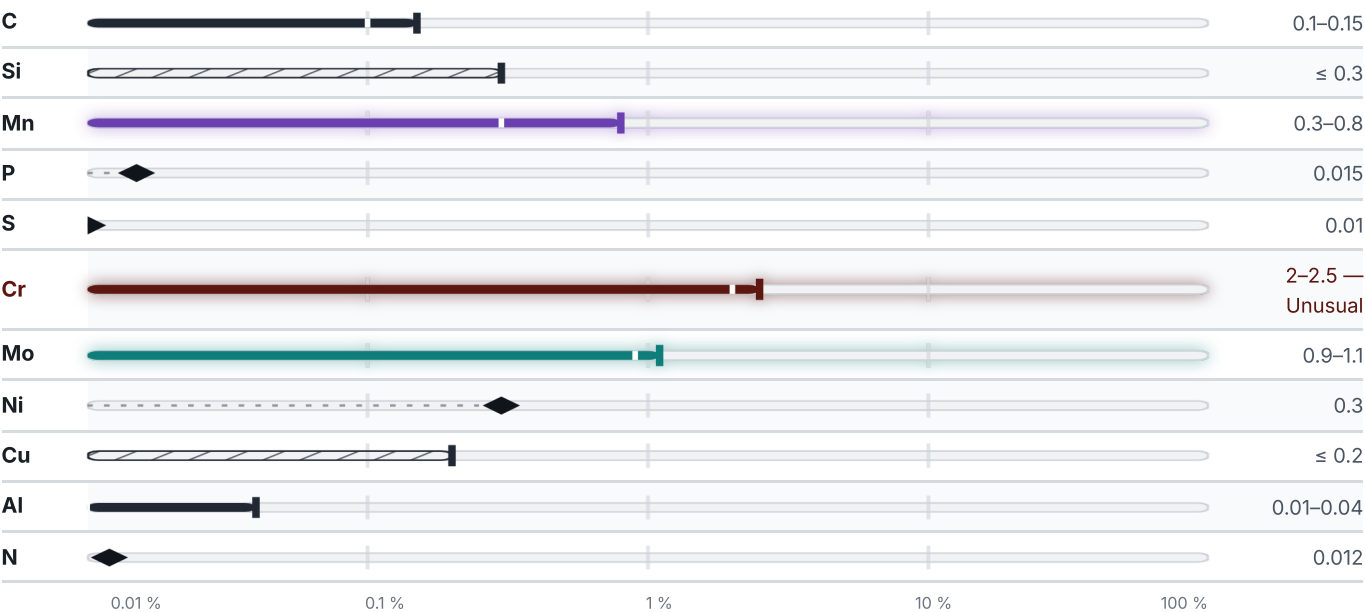
Chemical composition

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 820 °C	PREDICTED AE1 772 °C	PREDICTED ACM 448 °C	PREDICTED BS 466 °C
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Mechanical properties

3 values across 1 conditions

NORMALIZED AND TEMPERED	REH N/mm ²	RM N/mm ²	A %
≤ 250	355	540–690	18

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

18 designations · 3 documented as identical

United States		9	France		2
2.25Cr1Mo		uns	10CD9-10		afnor
A182 F22		uns	12CD9-10		afnor
A182 T22		uns			
K21390	This grade's own name	uns	Europe		1
K21590	This grade's own name	uns	12CrMo9-10	This grade's own name	din-en
2.25Cr1Mo		astm			
A182 F22		astm	Czechia		1
A182 T22		astm	15 313		csn
K21590		astm	Poland		1
Russia / CIS		4	10H2M		pn
10Ch2M		gost			
10X2M		gost			
1Ch2M		gost			
1Kh2M		gost			

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 12CrMo9-10

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

Start an enquiry