

MATERIAL NUMBER 1.8070 · CLASS 1.8

1.8070

Chemical composition, mechanical and physical property values, and 7 standard designations from 5 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	7 in 5 regions	10 on file

Chemical composition

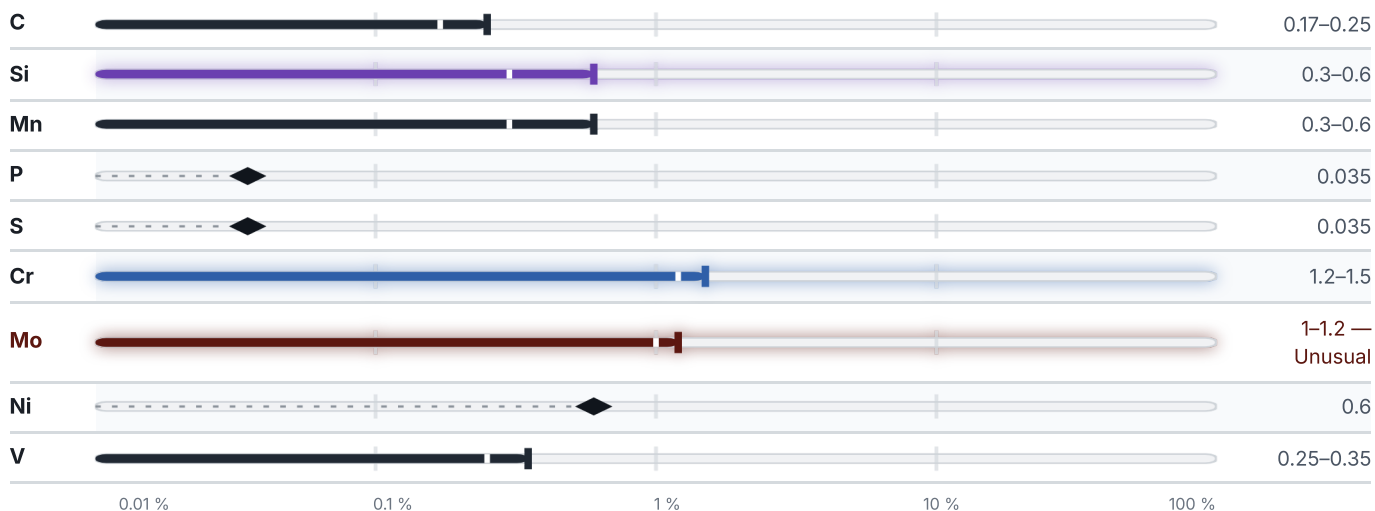
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 95.5 % ● Cr — 1.4 % ● Mo — 1.1 % ● Ni — 0.6 % ● Traces & impurities · 1.5 %

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
815 °C	754 °C	515 °C	492 °C

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

7 designations · 1 documented as identical

Russia / CIS	3	France	1
21Kh1M1F	gost	20CDV5-07	afnor
25Ch1M1F	gost		
25X1M1Φ	gost	Poland	1
		21HMF	pn
Europe	1	Hungary	1
21CrMoV5-11	This grade's own name din-en	MCrMoV	msz

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 1.8070

Start an enquiry

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

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

MATERIAL NO.

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ISSUED

Aug 20, 2026