

MATERIAL NUMBER 1.6510 · CLASS 1.6

39KhNM

Material no. 1.6510

also listed as 39NiCrMo3

Chemical composition, mechanical and physical property values, and 13 standard designations from 8 regions.

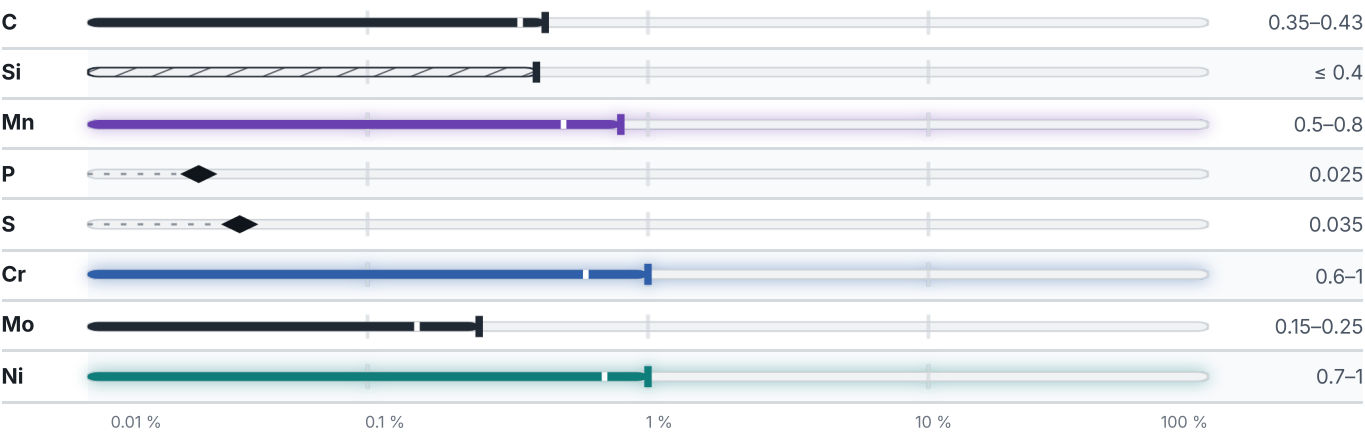
DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 13 in 8 regions	PROPERTY VALUES 9 on file
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Chemical composition

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

computed from composition · °C

PREDICTED AE3 765 °C	PREDICTED AE1 729 °C	PREDICTED ACM 620 °C	PREDICTED BS 525 °C
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Mechanical properties

6 values across 2 conditions

QUENCHED AND TEMPERED · ROUND PRODUCTS		A % · Lo = 5,65 √So
≤ 16		11
16 – 40		11
40 – 100		12
100 – 160		12
160 – 250		13
SOFT ANNEALED		HB
Soft annealed		240

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

13 designations · 1 documented as identical

Russia / CIS	3	Europe	1
39ChNM	gost	39NiCrMo3 This grade's own name	din-en
39KhNM	gost		
40ChN2MA	gost	United Kingdom	1
		816M40	bs
Italy	3	France	1
38NCD4	uni	40NCD3	afnor
38NiCrMo4KB	uni		
39NiCrMo3	uni	Poland	1
Spain	2	38HNM	pn
A-128	une	Hungary	1
F-128	une	NCMo4	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 39KhNM

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

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GRADE SEARCH

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ISSUED

Aug 20, 2026