

MATERIAL NUMBER 1.6745 · CLASS 1.6

1.6745

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

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 7 in 5 regions	PROPERTY VALUES 9 on file
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Chemical composition

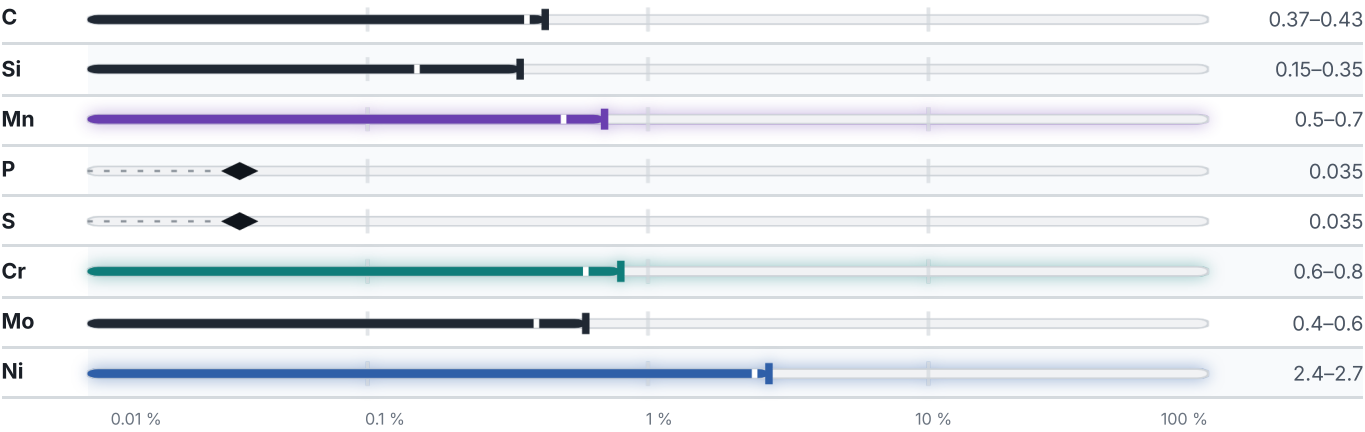
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 94.9 % ● Ni — 2.6 % ● Cr — 0.7 % ● Mn — 0.6 % ● Traces & impurities · 1.2 %

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 734 °C	PREDICTED AE1 700 °C	PREDICTED ACM 605 °C	PREDICTED BS 495 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

7 designations · 1 documented as identical

Russia / CIS	2	Europe	1
40ChN2MA	gost	40NiMoCr10-5	This grade's own name din-en
40KhN2MA	gost		
Italy	2	France	1
40 NiCrMo 7	uni	40 NCD 7	afnor
NCM 4	uni	Poland	1
		40HNMA	pn

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 1.6745

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

MATERIAL NO.

1.6745

ISSUED

Aug 20, 2026