

MATERIAL NUMBER 1.6773 · CLASS 1.6

35CND16

Material no. 1.6773

also listed as 36NiCrMo16

Chemical composition, mechanical and physical property values, and 17 standard designations from 6 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 17 in 6 regions	PROPERTY VALUES 9 on file
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Chemical composition

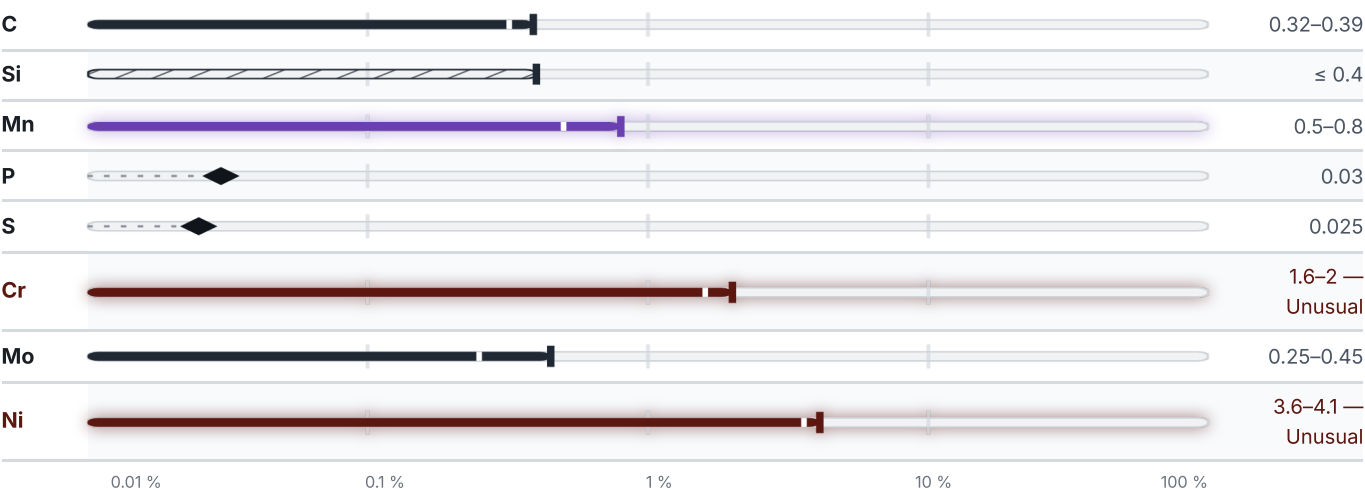
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 92.5 % ● Ni — 3.8 % ● Cr — 1.8 % ● Mn — 0.7 % ● 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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Mechanical properties

6 values across 2 conditions

QUENCHED AND TEMPERED · ROUND PRODUCTS		A
		% · Lo = 5,65 √So
≤ 16		9
16 – 40		9
40 – 100		10
100 – 160		11
160 – 250		11
SOFT ANNEALED		HB
Soft annealed		269

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

17 designations · 1 documented as identical

France	7	Poland	3
30NCD16	afnor	32HN3M	pn
35CND16	afnor	34HN3M	pn
35NCD14	afnor	36HNM	pn
35NCD16	afnor		
35NiCrMo14	afnor	Europe	2
35NiCrMo16	afnor	35NCD16	din-en
E30NCD16	afnor	36NiCrMo16	din-en
		This grade's own name	
Russia / CIS	3	United Kingdom	1
36Ch2N4MA	gost	835M30	bs
36H2N4MA	gost		
36Kh2N4MA	gost	Italy	1
		35NiCrMo15	uni

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 35CND16

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

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ISSUED

Aug 20, 2026