

MATERIAL NUMBER 1.7016 · CLASS 1.7

15HM

Material no. 1.7016

also listed as 17Cr3

Chemical composition, mechanical and physical property values, and 36 standard designations from 11 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	36 in 11 regions	10 on file

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Mo.

Mechanical properties

13 values across 5 conditions

SOFT ANNEALED	HB	HRB	HV
Soft annealed	174	84	170

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
5 - 9	560	400	18

TREATED TO FERRITE-PEARLITE STRUCTURE AND HARDNESS RANGE	HB
Treated to ferrite-pearlite structure and hardness range	140–187

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
to 50	510	390	19

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
to 50	530	390	18

Physical properties

4 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³
Transformation point Ac1	720	°C
Transformation point Ac3	850	°C

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	

Designations across standards

36 designations · 12 documented as identical

Russia / CIS		14	United Kingdom		2
15Ch	gost		17CrS3		bs
15G2SF	gost		527M17		bs
15G2SFD	gost				
15G2AFD	gost		Japan		2
15G2AFDps	gost		SCr415		jis
15HM	gost		SCr415H		jis
15KH	gost				
15KHGN2TA	gost		Europe		1
15N2M	gost		17Cr3	This grade's own name	din-en
15H2M	gost				
15HM	gost		France		1
15XГHTA	gost		12C3		afnor
сТ.15HM	gost				
сТ.15H2M	gost		Spain		1
			F-1516		une
United States		11			
G46150	This grade's own name	uns	Czechia		1
G50150	This grade's own name	uns	14120		csn
G51150	This grade's own name	uns			
G51170	This grade's own name	uns	Slovakia		1
G61180	This grade's own name	uns	14 120		stn
H61180	This grade's own name	uns			
4615	This grade's own name	aisi-sae	Poland		1
5015	This grade's own name	aisi-sae	15H		pn
5117	This grade's own name	aisi-sae			
6118	This grade's own name	aisi-sae	Serbia		1
6118H	This grade's own name	aisi-sae	Č.4120		srps

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 15HM

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

[Start an enquiry](#)

DATASHEET ONLINE

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GRADE SEARCH

Search all grades

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ISSUED

Aug 20, 2026