

MATERIAL NUMBER 1.7016 · CLASS 1.7

CT.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.	

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	Spain		1
СТ.15H2M		gost			
United States		11	F-1516		une
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 CT.15HM

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

[Start an enquiry](#)

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.7016	Aug 20, 2026