

MATERIAL NUMBER 1.7015 · CLASS 1.7

523M15

Material no. 1.7015

also listed as 15Cr3

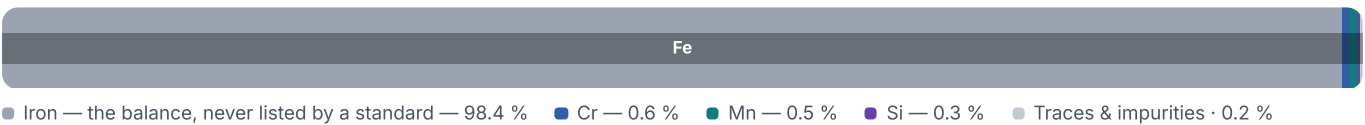
Chemical composition, mechanical and physical property values, and 36 standard designations from 14 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 36 in 14 regions	PROPERTY VALUES 8 on file
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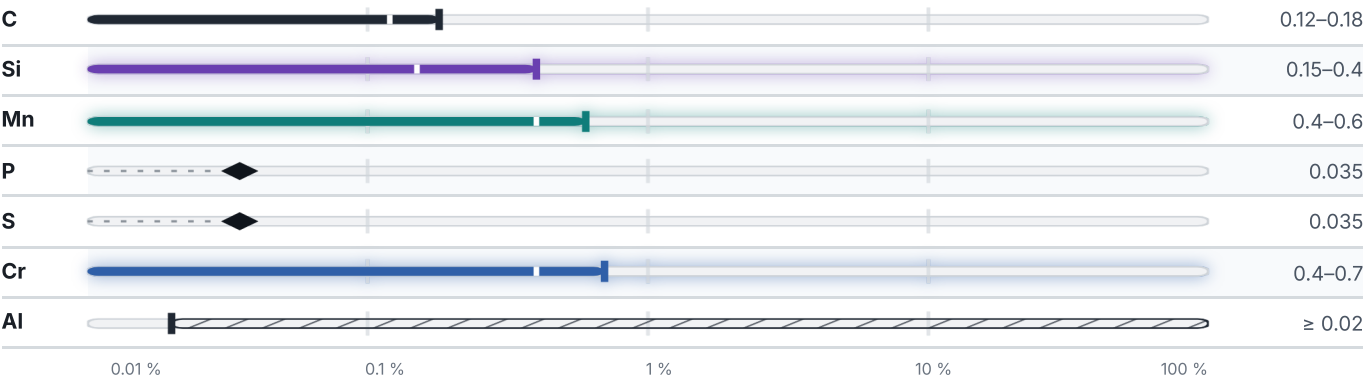
Chemical composition

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Heat treatment

9 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Normalizing	Temperature not stated	—
Tempering	Temperature not stated	—
Carburizing	Temperature not stated	—
Quenching	Temperature not stated	—
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—
source joins the operations with + / procedural order		
Annealing	Temperature not stated	—
Annealing	Temperature not stated	—
Tempering	Temperature not stated	—
Normalizing	Temperature not stated	—
Tempering	Temperature not stated	—
Spheroidize annealing	Temperature not stated	—
source joins the operations with + / procedural order		
Quenching	860 °C	—
Quenching	780 °C	Water
Tempering	200 °C	Air
source joins the operations with (or)		
Annealing	Temperature not stated	—
Tempering	Temperature not stated	—
Annealing	Temperature not stated	—

Designations across standards

36 designations · 3 documented as identical

United States8		Europe2	
G50150	This grade's own nameuns	1.7015	din-en
5015	This grade's own nameaisi-sae	15Cr3	This grade's own namedin-en
5115	aisi-sae	United Kingdom2	
G50150	aisi-sae	17Cr3bs	
G51150	aisi-sae	523M15bs	
G51170	aisi-sae	Japan2	
G61180	aisi-sae	SCr415jis	
5115	astm	SCr415Hjis	
Russia / CIS6		South Korea2	
15Ch	gost	SCr415ks	
15KH	gost	SCr415Hks	
15KHA	gost	Spain1	
15X	gost	17Cr3une	
15X	gost	Czechia1	
cT.15X	gost	14120csn	
France5		Poland1	
12C3	afnor	15Hpn	
12C8	afnor	Romania1	
15Cr2RR	afnor	15Cr9qstas	
17Cr3	afnor	Bulgaria1	
18C3	afnor	15Chbds	
China3		Belgium1	
15Cr	gb	15Cr2nbn	
15CrA	gb		
ML15Cr	gb		

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 523M15

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	1.7015	Aug 20, 2026