

MATERIAL NUMBER 1.7015 · CLASS 1.7

15Cr2

Material no. 1.7015

also listed as 15Cr3

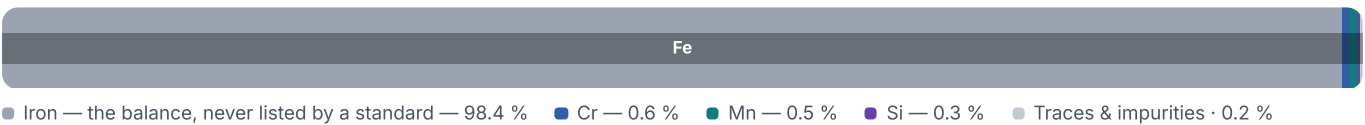
Chemical composition, mechanical and physical property values, and 36 standard designations from 14 regions.

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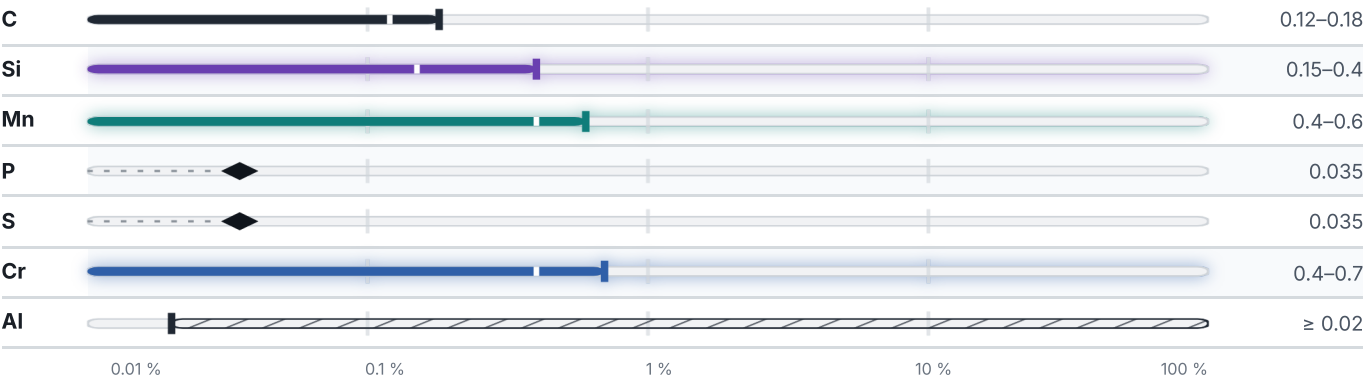
Chemical composition

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 States	8	Europe	2
G50150	uns	1.7015	din-en
5015	aisi-sae	15Cr3	din-en
5115	aisi-sae		
G50150	aisi-sae	United Kingdom	2
G51150	aisi-sae	17Cr3	bs
G51170	aisi-sae	523M15	bs
G61180	aisi-sae		
5115	astm	Japan	2
		SCr415	jis
Russia / CIS	6	SCr415H	jis
15Ch	gost		
15KH	gost	South Korea	2
15KHA	gost	SCr415	ks
15X	gost	SCr415H	ks
15X	gost		
cT.15X	gost	Spain	1
		17Cr3	une
France	5		
12C3	afnor	Czechia	1
12C8	afnor	14120	csn
15Cr2RR	afnor		
17Cr3	afnor	Poland	1
18C3	afnor	15H	pn
China	3	Romania	1
15Cr	gb	15Cr9q	stas
15CrA	gb		
ML15Cr	gb	Bulgaria	1
		15Ch	bds
		Belgium	1
		15Cr2	nbn

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 15Cr2

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