

MATERIAL NUMBER 1.0401 · CLASS 1.0

SM15CK

Material no. 1.0401

also listed as C15

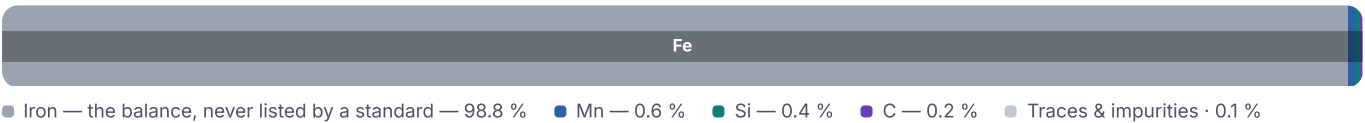
Chemical composition, mechanical and physical property values, and 62 standard designations from 23 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 62 in 23 regions	PROPERTY VALUES 6 on file
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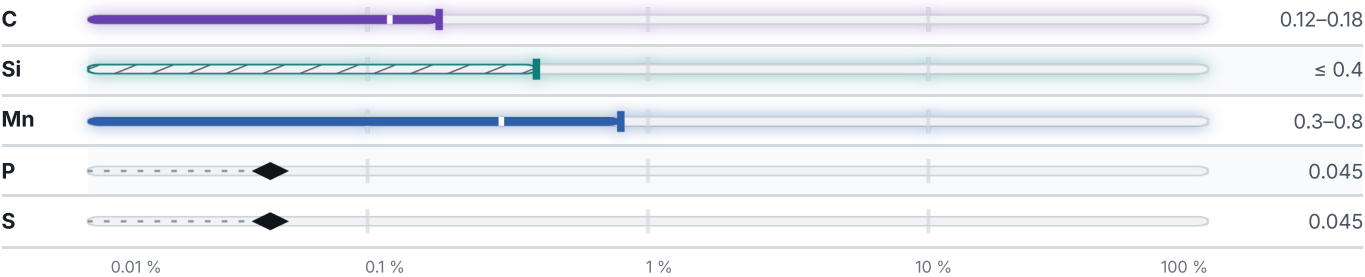
Chemical composition

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, Cr, Mo.

Mechanical properties

11 values across 2 conditions

COLD DRAWN / HARD	RM N/mm ²	A %
5 – 10	500–800	7

COLD DRAWN / HARD	RM N/mm ²	A %
10 – 16	480–780	8
16 – 40	430–730	9
40 – 63	380–670	11
63 – 100	340–600	12
AS ROLLED AND TURNED		HB
As rolled and turned		98–178

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

62 designations · 5 documented as identical

United States		10	United Kingdom		5
G10150	This grade's own name	uns	040A15		bs
G10170	This grade's own name	uns	080A15		bs
1015	This grade's own name	aisi-sae	080M15		bs
1016		aisi-sae	095M15		bs
1017	This grade's own name	aisi-sae	C15E		bs
1018		aisi-sae			
G10150		aisi-sae	Japan		4
G10170		aisi-sae	S15		jis
M1015		aisi-sae	S15C		jis
M1017		aisi-sae	S15CK		jis
			S17C		jis
France		6	Europe		3
AF37C12		afnor	1.0401		din-en
C18RR		afnor	C15	This grade's own name	din-en
CC12		afnor	Ck15		din-en
XC12		afnor			
XC15		afnor			
XC18		afnor			
Spain		6	China		3
C15E		une	15		gb
C15k		une	H15A		gb
C16k		une	ZG200-400		gb
F.111		une	Australia / New Zealand		3
F.1110		une	K1015		as-nzs
F.1511		une	K1018		as-nzs
			K1020		as-nzs

Romania	3	Latin America	1
OLC15	stas	1016	copant
OLC15AT	stas		
OLC15X	stas	Poland	1
		15	pn
Russia / CIS	2	Serbia	1
15	gost	Č.1220	srps
ct15	gost		
Italy	2	Croatia	1
C15	uni	Č.1220	hrn
C16	uni		
Sweden	2	Hungary	1
1350	ss	C15	msz
1370	ss		
Czechia	2	Bulgaria	1
12020	csn	15	bds
12023	csn	Austria	1
		RC15	onorm
South Korea	2	Belgium	1
SM15C	ks	C16-2	nbn
SM15CK	ks	Switzerland	1
		Ck15	snv

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 SM15CK

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

[Start an enquiry](#)

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

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ISSUED

Sep 8, 2026