

MATERIAL NUMBER 1.1140 · CLASS 1.1

C16k-1

Material no. 1.1140

also listed as C15R

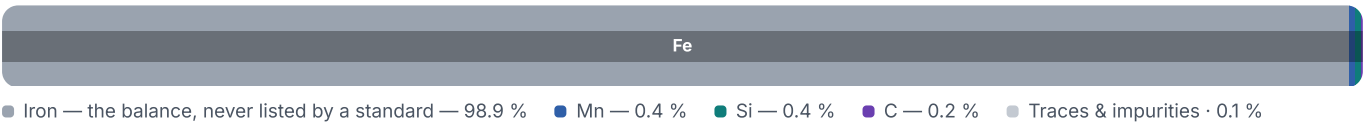
Chemical composition, mechanical and physical property values, and 10 standard designations from 7 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 10 in 7 regions	PROPERTY VALUES 6 on file
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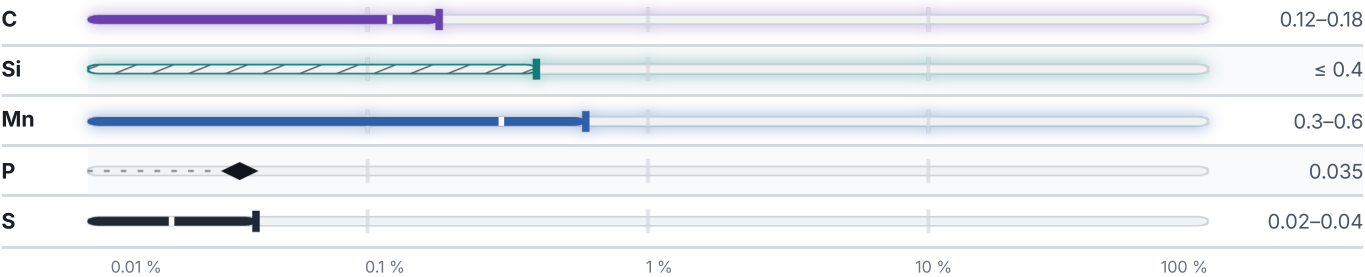
Chemical composition

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

13 values across 4 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	10
63 – 100	340–600	11
SOFT ANNEALED		HB
Soft annealed		143
NORMALIZED		HB
Normalized		95–150
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

10 designations · 4 documented as identical

Europe	3	Spain	1
C15R This grade's own name	din-en	C16k-1	une
Ck15	din-en		
Cm 15 This grade's own name	din-en	International	1
		C15M2	iso
United States	2	Italy	1
G10150 This grade's own name	uns	C15	uni
1015 This grade's own name	aisi-sae		
France	1	Sweden	1
XC12	afnor	1370	ss

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 C16k-1

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

[Start an enquiry](#)

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026