

MATERIAL NUMBER 1.1148 · CLASS 1.1

C16E

Material no. 1.1148

Chemical composition, mechanical and physical property values, and 9 standard designations from 7 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 9 in 7 regions	PROPERTY VALUES 6 on file
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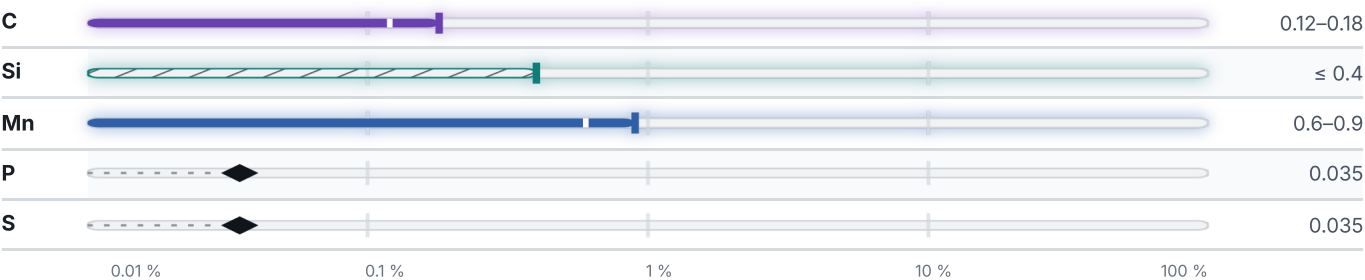
Chemical composition

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

2 values across 2 conditions

SOFT ANNEALED	HB
Soft annealed	156

NORMALIZED	HB
Normalized	100–155

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

9 designations · 4 documented as identical

Europe	2	France	1
C16E This grade's own name	din-en	XC18	afnor
Ck 15 Al This grade's own name	din-en	International	1
United States	2	C16E4	iso
G10160 This grade's own name	uns	Czechia	1
1016 This grade's own name	aisi-sae	12020	csn
United Kingdom	1	Slovakia	1
080M15	bs	12 020	stn

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 C16E

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	1.1148	Aug 20, 2026