

MATERIAL NUMBER 1.1130 · CLASS 1.1

Ck 12

Material no. 1.1130

also listed as C12E

Chemical composition, mechanical and physical property values, and 6 standard designations from 4 regions.

DENSITY**7.85** g/cm³**OTHER DESIGNATIONS****6** in 4 regions**PROPERTY VALUES****6** on file

Chemical composition

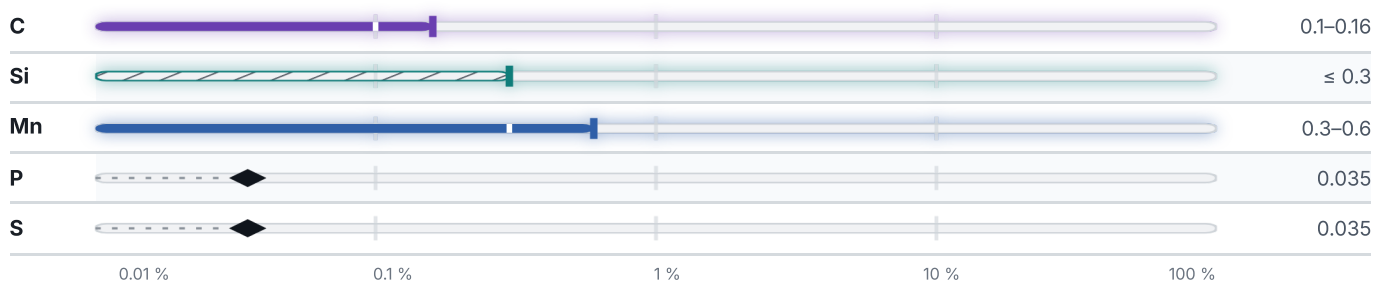
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 99.1 % ● Mn — 0.4 % ● Si — 0.3 % ● C — 0.1 % ● Traces & impurities · 0.1 %

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

6 designations · 4 documented as identical

Europe		2	United Kingdom		1
C12E	This grade's own name	din-en	040A12		bs
Ck 12	This grade's own name	din-en			
United States		2	Japan		1
G10120	This grade's own name	uns	S12C		jis
1012	This grade's own name	aisi-sae			

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 Ck 12

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	1.1130	Aug 20, 2026