

MATERIAL NUMBER 1.1210 · CLASS 1.1

Ck 53

Material no. 1.1210

also listed as C53E

Chemical composition, mechanical and physical property values, and 12 standard designations from 7 regions.

DENSITY

7.85 g/cm³

OTHER DESIGNATIONS

12 in 7 regions

PROPERTY VALUES

6 on file

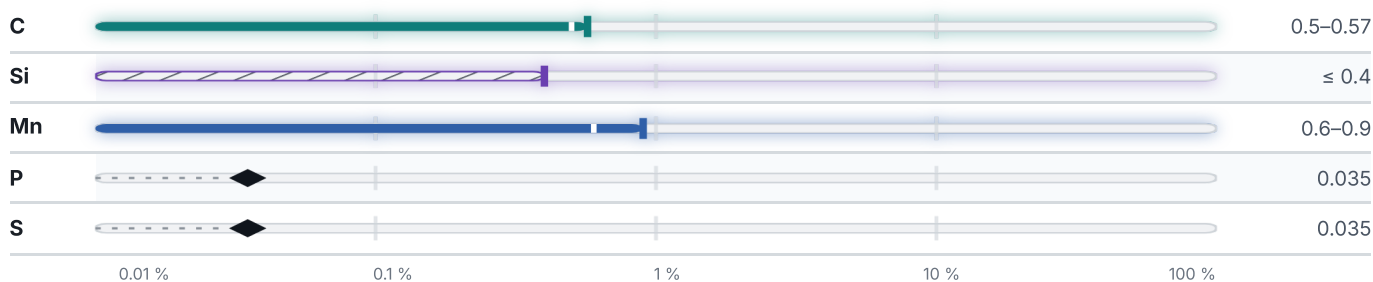
Chemical composition

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

12 designations · 2 documented as identical

United States3		France2	
G10500	uns	XC48TS	afnor
1050	aisi-sae	XC50	afnor
1050	astm		
Europe2		Japan1	
C53E	This grade's own name din-en	S50C	jis
Ck 53	This grade's own name din-en		
United Kingdom2		China1	
060A52	bs	50	gb
080M50	bs	Romania	1
		OLC50X	stas

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 53

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	1.1210	Aug 20, 2026