

MATERIAL NUMBER 1.1213 · CLASS 1.1

C53G

Material no. 1.1213

also listed as C53E

Chemical composition, mechanical and physical property values, and 20 standard designations from 11 regions.

DENSITY 7.69 g/cm ³	OTHER DESIGNATIONS 20 in 11 regions	PROPERTY VALUES 6 on file
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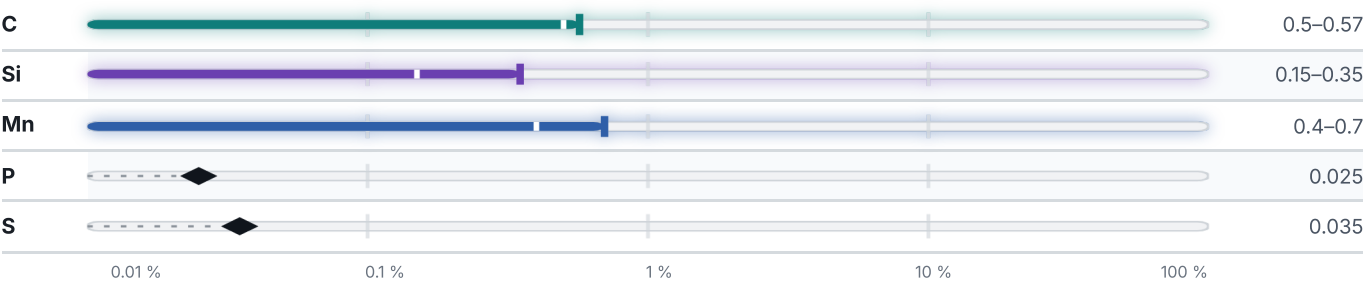
Chemical composition

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.69	g/cm ³

Designations across standards

20 designations · 7 documented as identical

Europe	4	Italy	2
1.1213	din-en	C50E	uni
C53E This grade's own name	din-en	C53	uni
C53G This grade's own name	din-en		
Cf 53 This grade's own name	din-en	International	1
		C50 C50E4 C50M2	iso
United States	4		
G10500 This grade's own name	uns	Japan	1
G10550 This grade's own name	uns	S50C	jis
1050 This grade's own name	aisi-sae		
1055 This grade's own name	aisi-sae	China	1
		50	gb
United Kingdom	2		
060A52	bs	Russia / CIS	1
C50 C50E C50R	bs	50	gost
France	2	Sweden	1
XC48H1TS	afnor	1674	ss
XC48TS	afnor		
		Czechia	1
		12051	csn

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 C53G

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