

MATERIAL NUMBER 1.1210 · CLASS 1.1

1.1210

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

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 12 in 7 regions	PROPERTY VALUES 6 on file
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Chemical composition

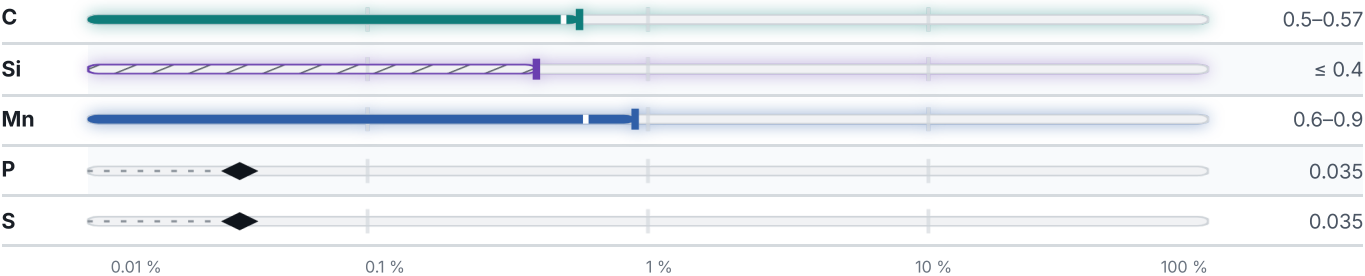
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 98.2 % ● Mn — 0.8 % ● C — 0.5 % ● Si — 0.4 % ● 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

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 namedin-en	S50C	jis
Ck 53	This grade's own namedin-en		
United Kingdom2		China1	
060A52	bs	50	gb
080M50	bs	Romania1	
		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 1.1210

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