

MATERIAL NUMBER 1.1217 · CLASS 1.1

C90S

Material no. 1.1217

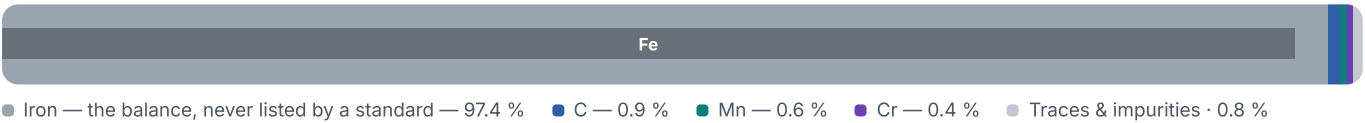
Chemical composition, mechanical and physical property values, and 12 standard designations from 6 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 12 in 6 regions	PROPERTY VALUES 9 on file
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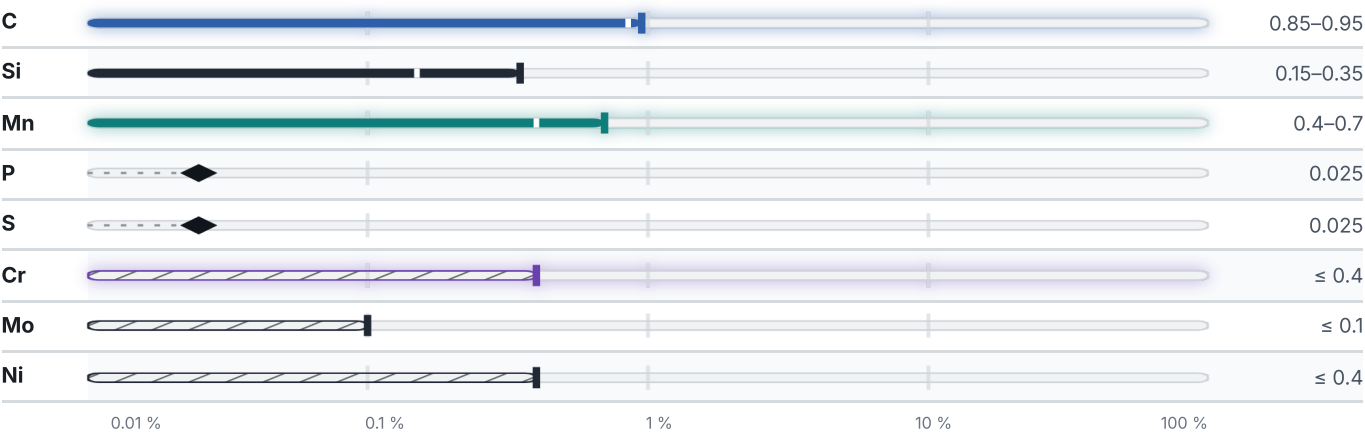
Chemical composition

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Mechanical properties

7 values across 6 conditions

SOFT ANNEALED	RM N/mm ²	A80 %
0.3 – 3	680	14
COLD ROLLED	RM N/mm ²	
0.3 – 3		1200
QUENCHED AND TEMPERED	RM N/mm ²	
0.3 – 3		1200–2100
SOFT ANNEALED		HV
Soft annealed		215
COLD ROLLED		HV
Cold rolled		325
QUENCHED AND TEMPERED		HV
Quenched and tempered		370–600

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

12 designations · 3 documented as identical

United Kingdom	3	United States	2
95CS	bs	G10860 This grade's own name	uns
95HS	bs	1086 This grade's own name	aisi-sae
CS95	bs		
France	3	Japan	2
C90E2U	afnor	SK4	jis
C90RR	afnor	SK95	jis
XC 90	afnor	Europe	1
		C90S This grade's own name	din-en
		Italy	1
		C90	uni

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 C90S
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE
View the material page

GRADE SEARCH
Search all grades

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ISSUED
Aug 20, 2026