

MATERIAL NUMBER 1.1248 · CLASS 1.1

C75RR

Material no. 1.1248

also listed as C75S

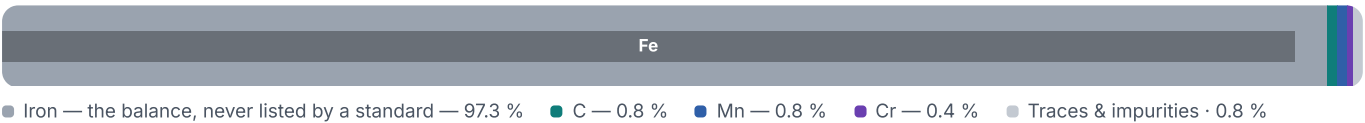
Chemical composition, mechanical and physical property values, and 21 standard designations from 11 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 21 in 11 regions	PROPERTY VALUES 9 on file
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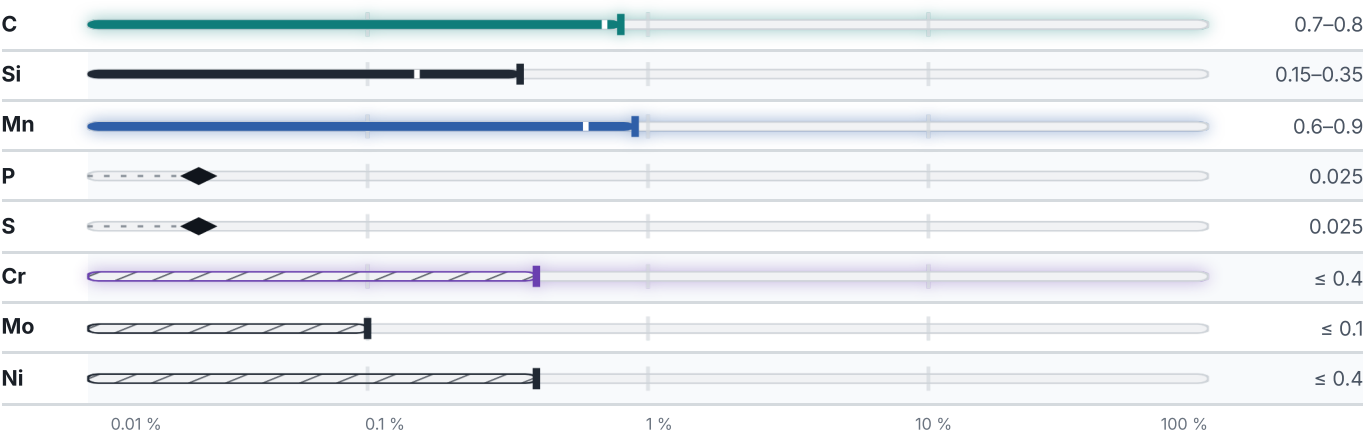
Chemical composition

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	640	15
COLD ROLLED	RM N/mm ²	
0.3 – 3		1170
QUENCHED AND TEMPERED	RM N/mm ²	
0.3 – 3		1200–1900
SOFT ANNEALED		HV
Soft annealed		200
COLD ROLLED		HV
Cold rolled		320
QUENCHED AND TEMPERED		HV
Quenched and tempered		370–580

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

21 designations · 10 documented as identical

United States	9	France	2
G10700 This grade's own name	uns	C75RR	afnor
G10740 This grade's own name	uns	XC 75	afnor
G10750 This grade's own name	uns		
G10780 This grade's own name	uns	United Kingdom	1
1070 This grade's own name	aisi-sae	CS80	bs
1074 This grade's own name	aisi-sae		
1075 This grade's own name	aisi-sae	Japan	1
1078 This grade's own name	aisi-sae	S 75 CM	jis
1080	aisi-sae		
Europe	2	Russia / CIS	1
C75S This grade's own name	din-en	75	gost
Ck 75 This grade's own name	din-en	Czechia	1
		12081	csn

Brazil	1	Poland	1
1074	abnt	75	pn
Slovakia	1	Romania	1
12081	stn	OLC 75A	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 C75RR
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	MATERIAL NO. 1.1248	ISSUED Aug 20, 2026
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