

MATERIAL NUMBER 1.1121 · CLASS 1.1

SM9CK

Material no. 1.1121

also listed as C10E

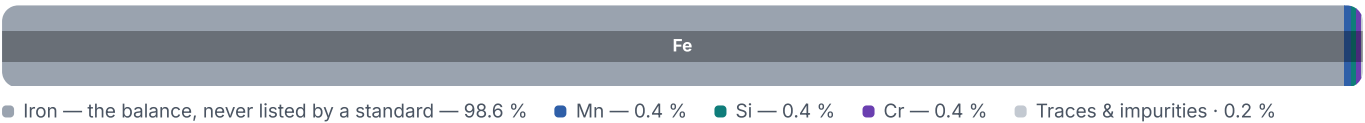
Chemical composition, mechanical and physical property values, and 61 standard designations from 22 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 61 in 22 regions	PROPERTY VALUES 7 on file
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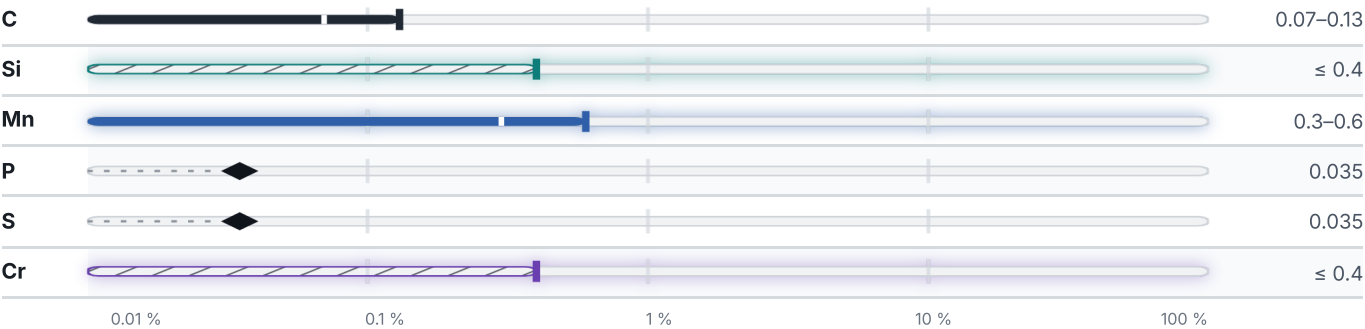
Chemical composition

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, Mo.

Mechanical properties

4 values across 3 conditions

SOFT ANNEALED	HB	HRB
Soft annealed	131	73
NORMALIZED	HB	
Normalized	85–140	
COLD ROLLED	HV	
Cold rolled	250	

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

61 designations · 4 documented as identical

United States		7	Spain		5
G10100	This grade's own name	uns	C10E		une
1008		aisi-sae	C10k		une
1010	This grade's own name	aisi-sae	F.151		une
1011		aisi-sae	F.1510		une
G10080		aisi-sae	F.1510-C 10 k		une
G10100		aisi-sae			
M1010		aisi-sae			
United Kingdom		6	France		4
040A10		bs	AF-34		afnor
045A10		bs	C10RR		afnor
045M10		bs	XC10		afnor
C10 C10E C10R		bs	XC12		afnor
C10E		bs			
CS12		bs			
Japan		6	Italy		4
S09CK		jis	2C10		uni
S09CX		jis	2C15		uni
S10C		jis	C10		uni
S9CK		jis	C15		uni
SPHE		jis			
SWR1		jis			
			Australia / New Zealand		4
			1010		as-nzs
			A1010		as-nzs
			CA1010		as-nzs
			HA1010		as-nzs

Europe	3	South Korea	2
C10E This grade's own name	din-en	SM10C	ks
Ck 10 This grade's own name	din-en	SM9CK	ks
Ck15	din-en		
International	3	Czechia	1
C10	iso	12010	csn
C15M2	iso	Slovakia	1
S10C	iso	12 010	stn
China	3	Hungary	1
08	gb	C10	msz
08F	gb	Romania	1
10	gb	OLC10X	stas
Russia / CIS	2	Bulgaria	1
08	gost	08	bds
10	gost		
Sweden	2	Austria	1
1146	ss	RC12	onorm
1265	ss		
Poland	2	Belgium	1
08X	pn	C10-2	nbn
10	pn	Switzerland	1
		Ck10	snv

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 SM9CK

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