

MATERIAL NUMBER 1.1121 · CLASS 1.1

Ck10

Material no. 1.1121

also listed as C10E

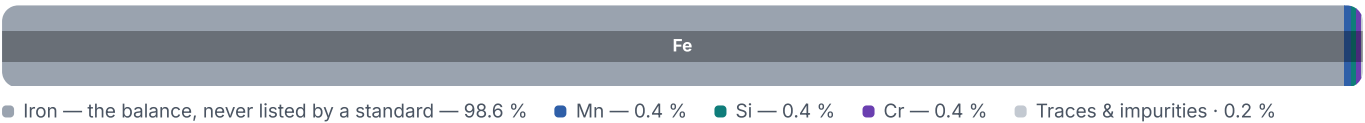
Chemical composition, mechanical and physical property values, and 61 standard designations from 22 regions.

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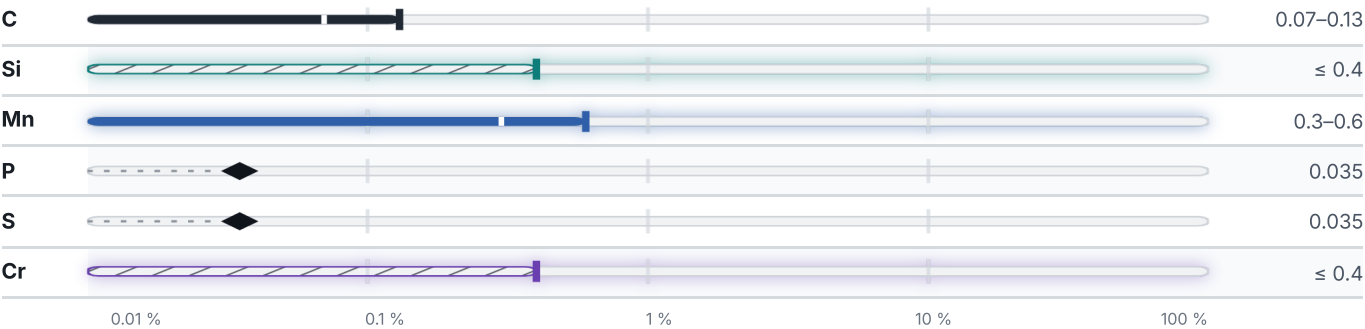
Chemical composition

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/cm³

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	France	4
		AF-34	afnor
United Kingdom	6	C10RR	afnor
O40A10	bs	XC10	afnor
O45A10	bs	XC12	afnor
O45M10	bs		
C10 C10E C10R	bs	Italy	4
C10E	bs	2C10	uni
CS12	bs	2C15	uni
		C10	uni
Japan	6	C15	uni
S09CK	jis		
S09CX	jis	Australia / New Zealand	4
S10C	jis	1010	as-nzs
S9CK	jis	A1010	as-nzs
SPHE	jis	CA1010	as-nzs
SWR1	jis	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 Ck10

[Start an enquiry](#)

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

DATASHEET ONLINE

View the material page

GRADE SEARCH

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ISSUED

Aug 20, 2026