

MATERIAL NUMBER 1.1121 · CLASS 1.1

C10k

Material no. 1.1121

also listed as C10E

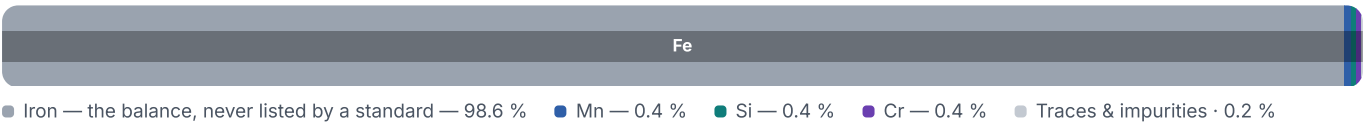
Chemical composition, mechanical and physical property values, and 61 standard designations from 22 regions.

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

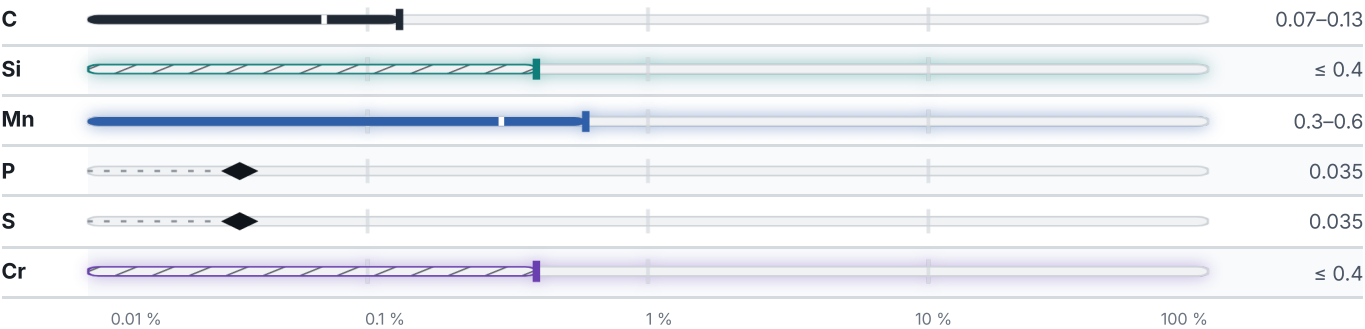
Chemical composition

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	France		4
United Kingdom		6	AF-34		afnor
040A10		bs	C10RR		afnor
045A10		bs	XC10		afnor
045M10		bs	XC12		afnor
C10 C10E C10R		bs	Italy		4
C10E		bs	2C10		uni
CS12		bs	2C15		uni
			C10		uni
Japan		6	C15		uni
S09CK		jis	Australia / New Zealand		4
S09CX		jis			
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	Belgium	1
Poland	2	C10-2	nbn
08X	pn	Switzerland	1
10	pn	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 C10k

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.

1.1121

ISSUED

Aug 20, 2026