

MATERIAL NUMBER 1.1203 · CLASS 1.1

C55E

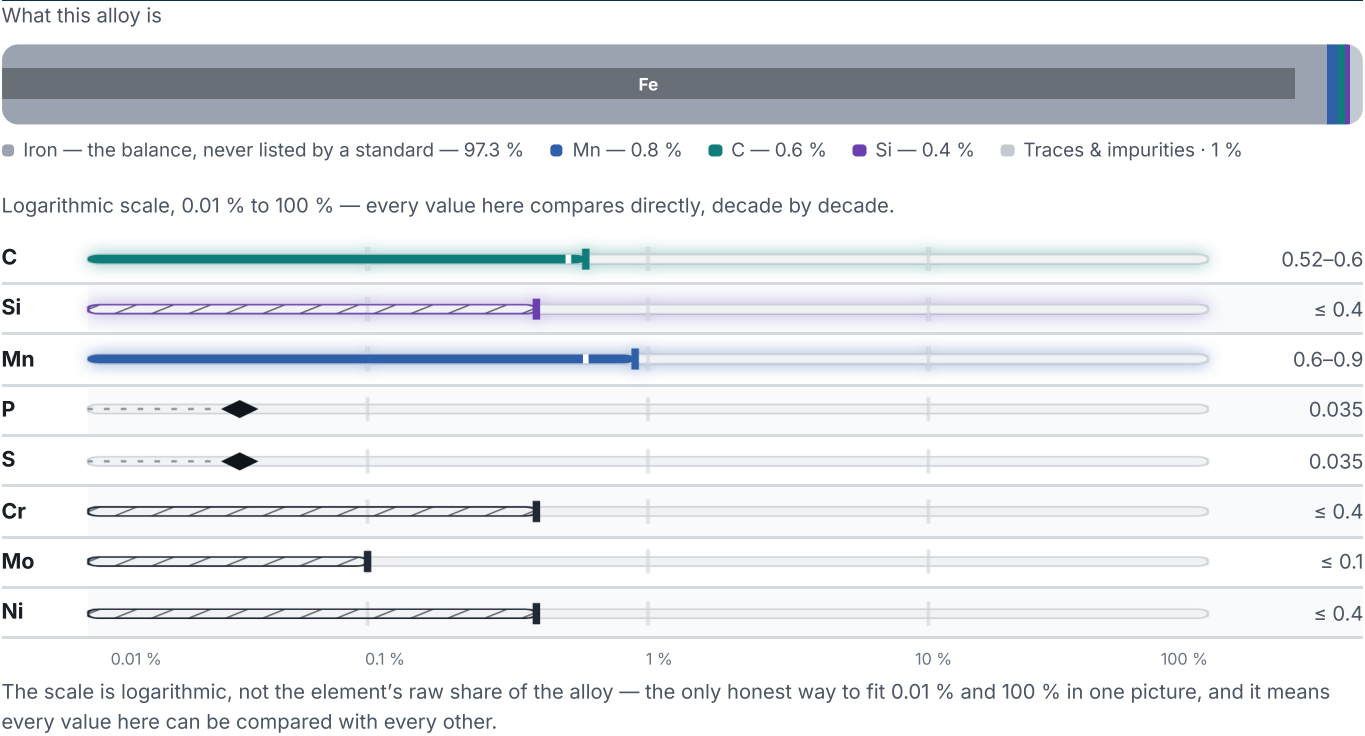
Material no. 1.1203

Chemical composition, mechanical and physical property values, and 32 standard designations from 15 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 32 in 15 regions	PROPERTY VALUES 9 on file
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Chemical composition

Mass fraction in %



Predicted transformation temperatures

computed from composition · °C

PREDICTED AE3 744 °C	PREDICTED AE1 723 °C	PREDICTED ACM 687 °C	PREDICTED BS 547 °C
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Mechanical properties

16 values across 7 conditions

NORMALIZED	RM N/mm ²	A %
≤ 16	680	11
16 – 100	640	12
100 – 250	620	12
250 – 500	600	–
500 – 1000	590	–
SOFT ANNEALED	RM N/mm ²	A80 %
0.3 – 3	600	17
QUENCHED AND TEMPERED	RM N/mm ²	
0.3 – 3	1100–1700	
TREATED TO IMPROVE SHEARABILITY		HB
Treated to improve shearability	255	
SOFT ANNEALED	HB	HV
Soft annealed	229	185
COLD ROLLED		HV
Cold rolled	300	
QUENCHED AND TEMPERED		HV
Quenched and tempered	340–520	

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

32 designations · 4 documented as identical

France	6	Poland	3
C50RR	afnor	55	pn
C55E	afnor	60	pn
XC 50	afnor	gat. 55	pn
XC54	afnor		
XC55	afnor	Italy	2
XC55H1	afnor	C50	uni
		C55	uni
United States	4	International	1
G10550 This grade's own name	uns	C55E4	iso
G10600	uns		
1055 This grade's own name	aisi-sae	Japan	1
1060	aisi-sae	S55C	jis
Europe	3	China	1
1.1203	din-en	55	gb
C55E This grade's own name	din-en		
Ck 55 This grade's own name	din-en	Russia / CIS	1
United Kingdom	3	55	gost
060A57	bs	Czechia	1
070M55	bs	12060	csn
CS50	bs		
Spain	3	Brazil	1
C55K	une	1055	abnt
F.1150-C 55 k	une	Slovakia	1
F1150	une	12 060	stn
		Hungary	1
		C 55	msz

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 C55E

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

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ISSUED

Aug 20, 2026