

MATERIAL NUMBER 1.1158 · CLASS 1.1

Ck 25

Material no. 1.1158

also listed as C25E

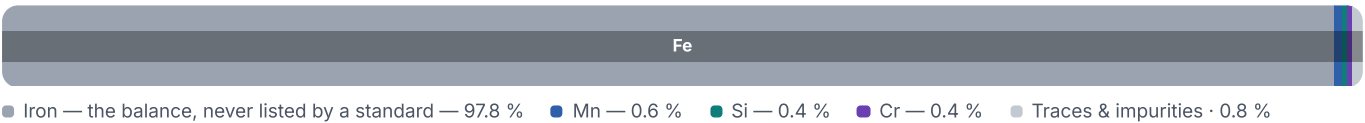
Chemical composition, mechanical and physical property values, and 19 standard designations from 12 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 19 in 12 regions	PROPERTY VALUES 9 on file
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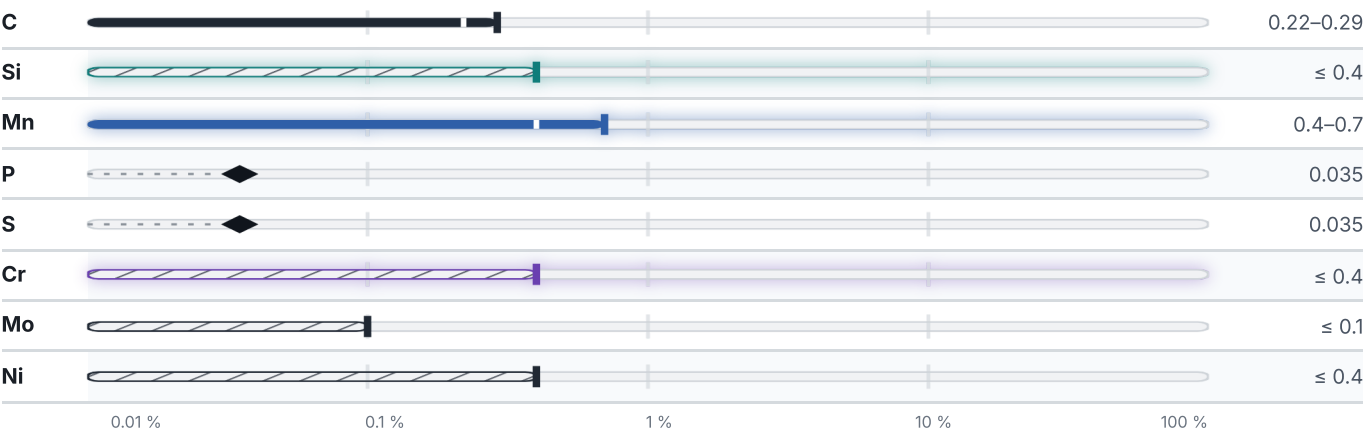
Chemical composition

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

computed from composition · °C

PREDICTED AE3 803 °C	PREDICTED AE1 725 °C	PREDICTED ACM 503 °C	PREDICTED BS 572 °C
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Mechanical properties

8 values across 1 conditions

NORMALIZED	RM N/mm ²	A %
≤ 100	440	23
100 – 250	420	23
250 – 500	400	23
500 – 1000	390	22

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

19 designations · 4 documented as identical

Europe	3	International	2
1.1158	din-en	C25 C25E4 C25M2	iso
C25E This grade's own name	din-en	C25E4	iso
Ck 25 This grade's own name	din-en		
United States	2	Japan	1
G10250 This grade's own name	uns	S25C	jis
1025 This grade's own name	aisi-sae	China	1
		25	gb
United Kingdom	2	Russia / CIS	1
070M26	bs	25	gost
C25 C25E C25R	bs		
France	2	Czechia	1
C25E	afnor	12030	csn
XC25	afnor		
Spain	2	Slovakia	1
F.1120	une	12 030	stn
F.1120-C 25 k	une	Australia / New Zealand	1
		1025	as-nzs

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 Ck 25

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.

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ISSUED

Aug 20, 2026