

MATERIAL NUMBER 1.1178 · CLASS 1.1

080M30

Material no. 1.1178

also listed as C30E

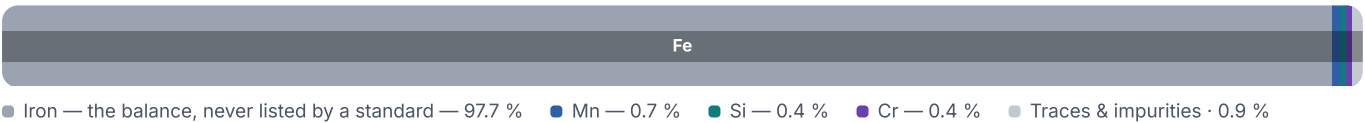
Chemical composition, mechanical and physical property values, and 19 standard designations from 13 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 19 in 13 regions	PROPERTY VALUES 9 on file
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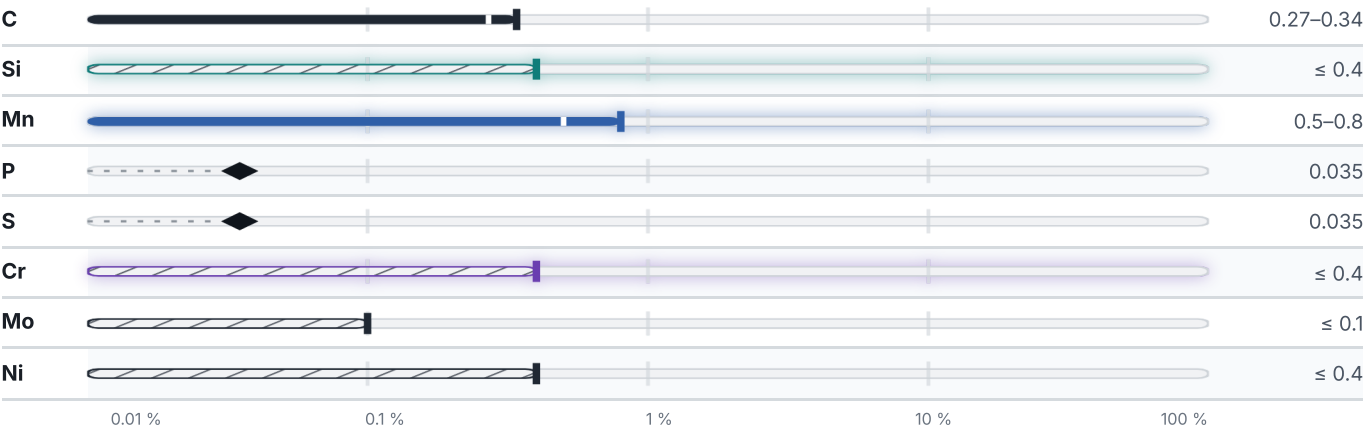
Chemical composition

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 792 °C	PREDICTED AE1 724 °C	PREDICTED ACM 539 °C	PREDICTED BS 566 °C
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Mechanical properties

5 values across 4 conditions

SOFT ANNEALED	RM N/mm ²	A80 %
0.3 – 3	520	20
COLD ROLLED	RM N/mm ²	
0.3 – 3		920
COLD ROLLED		HV
Cold rolled		270
SOFT ANNEALED		HV
Soft annealed		165

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

19 designations · 4 documented as identical

United Kingdom	4	Spain	1
060A30	bs	C25k	une
080M30	bs		
C30 C30E C30R	bs	Japan	1
CS30	bs	S30C	jis
Europe	2	China	1
C30E This grade's own name	din-en	30	gb
Ck 30 This grade's own name	din-en		
		Russia / CIS	1
United States	2	30	gost
G10300 This grade's own name	uns		
1030 This grade's own name	aisi-sae	Czechia	1
		12031	csn
International	2	Latin America	1
C30 C30E4 C30M2	iso		
C30E4	iso	1030	copant
France	1	Slovakia	1
XC32	afnor	12 031	stn
		Hungary	1
		C 30	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 080M30
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