

MATERIAL NUMBER 1.1141 · CLASS 1.1

505

Material no. 1.1141

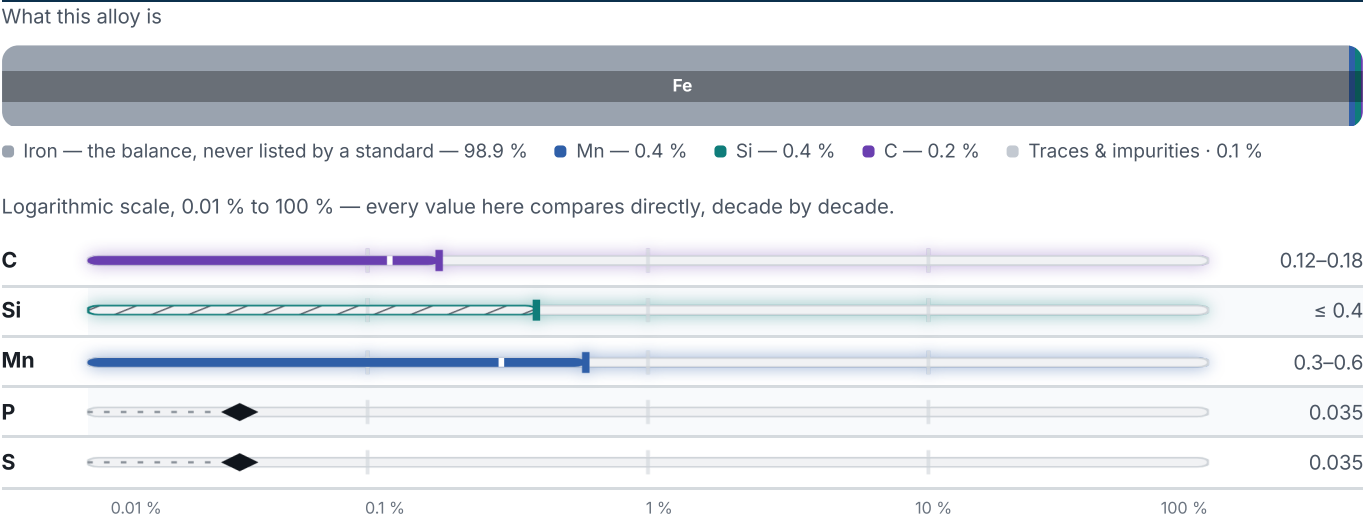
also listed as C15E

Chemical composition, mechanical and physical property values, and 52 standard designations from 20 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 52 in 20 regions	PROPERTY VALUES 6 on file
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Chemical composition

Mass fraction in %



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, Cr, Mo.

Mechanical properties

5 values across 3 conditions

SOFT ANNEALED	HB	HRB	HV
Soft annealed	143	76	140

NORMALIZED	HB
Normalized	95–150
COLD ROLLED	HV
Cold rolled	260

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

52 designations · 6 documented as identical

United Kingdom		8	Spain		4
040A15	bs		C15K		une
055M15	bs		C16k		une
080A15	bs		F.1511		une
080M15	bs		F.1511 –C 16 k		une
32C	bs		Australia / New Zealand		4
C15 C15E C15R	bs		1015		as-nzs
CS17	bs		K1015		as-nzs
EN32C	bs		K1018		as-nzs
United States		6	K1020		as-nzs
G10150	This grade's own name	uns	Japan		3
G10170	This grade's own name	uns	S15C		jis
1015	This grade's own name	aisi-sae	S15CK		jis
1017	This grade's own name	aisi-sae	S17C		jis
Gr.1015		aisi-sae	Czechia		3
Gr.1016		aisi-sae	12 020 VAR		csn
Europe		5	12020		csn
1.1141	din-en		12023		csn
C15	din-en		International		2
C15E	This grade's own name	din-en	C15E4		iso
Ck 15	This grade's own name	din-en	C15M2		iso
Gr.1016	din-en		Russia / CIS		2
France		4	15		gost
C15E	afnor		ct15		gost
C18RR	afnor		Italy		2
XC12	afnor		C15		uni
XC15	afnor		C16		uni

China	1	Hungary	1
15	gb	C 15	msz
Sweden	1	Romania	1
1370	ss	OLC15	stas
Slovakia	1	Austria	1
12 023	stn	RC15	onorm
Poland	1	Finland	1
15	pn	505	sfs
Croatia	1		
Č1221	hrn		

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 505
Quotation, availability, mill certificate or a technical question — directly on the material page.

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