

MATERIAL NUMBER 1.1141 · CLASS 1.1

12 020 VAR

Material no. 1.1141

also listed as C15E

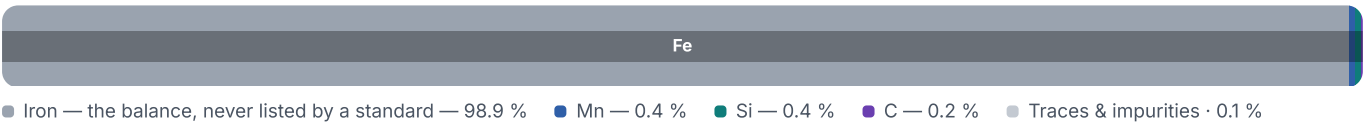
Chemical composition, mechanical and physical property values, and 52 standard designations from 20 regions.

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

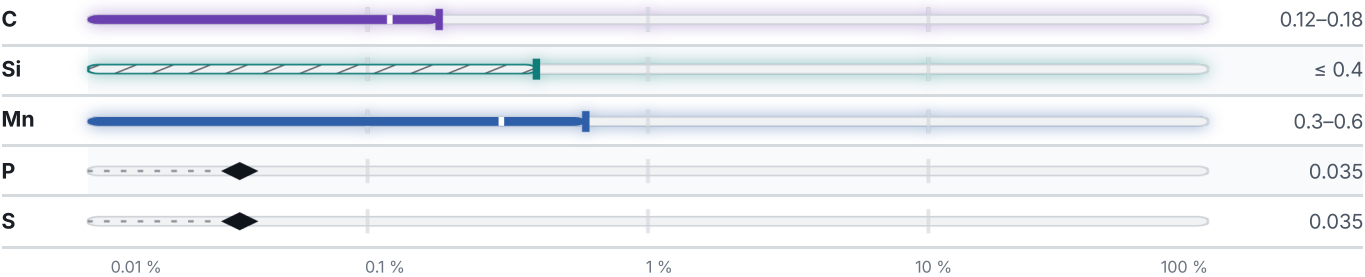
Chemical composition

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, 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/cm ³

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		
C15 C15E C15R	bs	Australia / New Zealand	4
CS17	bs	1015	as-nzs
EN32C	bs	K1015	as-nzs
		K1018	as-nzs
United States	6	K1020	as-nzs
G10150 This grade's own name	uns		
G10170 This grade's own name	uns	Japan	3
1015 This grade's own name	aisi-sae	S15C	jis
1017 This grade's own name	aisi-sae	S15CK	jis
Gr.1015	aisi-sae	S17C	jis
Gr.1016	aisi-sae		
		Czechia	3
Europe	5	12 020 VAR	csn
1.1141	din-en	12020	csn
C15	din-en	12023	csn
C15E This grade's own name	din-en		
Ck 15 This grade's own name	din-en	International	2
Gr.1016	din-en	C15E4	iso
		C15M2	iso
France	4		
C15E	afnor	Russia / CIS	2
C18RR	afnor	15	gost
XC12	afnor	ct15	gost
XC15	afnor		
		Italy	2
		C15	uni
		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 12 020 VAR
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. 1.1141	ISSUED Aug 20, 2026
---	--	-------------------------------	-------------------------------