

MATERIAL NUMBER 1.0028 · CLASS 1.0

Q235B-F

Material no. 1.0028

also listed as S205G1T

Chemical composition, mechanical and physical property values, and 93 standard designations from 19 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 93 in 19 regions	PROPERTY VALUES 7 on file
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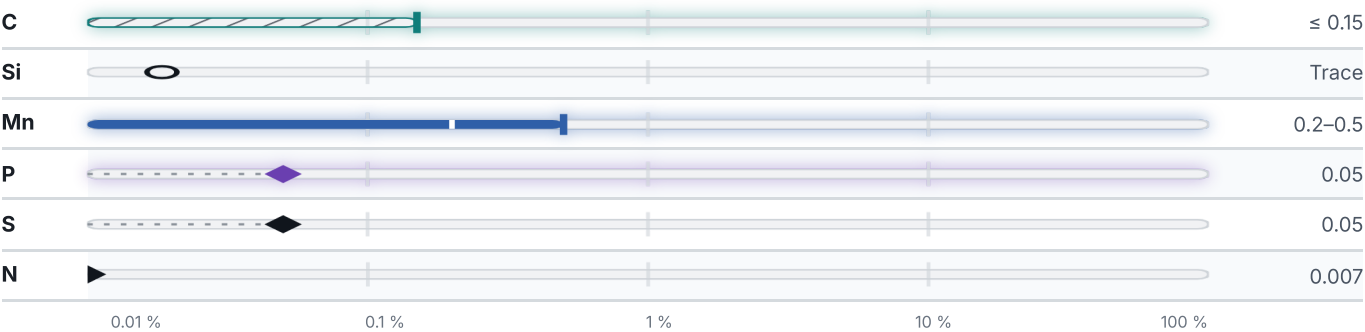
Chemical composition

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Si, Ni, Cr, Mo.

Mechanical properties

6 values across 2 conditions

AS-DELIVERED STATE	RM N/mm ²	RE N/mm ²	A5 %
4 - 20	365–490	235	26

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %
Hot-rolled	330–430	165–205	21–28

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

93 designations · 3 documented as identical

United States		15	United Kingdom		10
A284Gr.D	aisi-sae		1449-37/23CR		bs
A570Gr.33	aisi-sae		37/23HR		bs
A570Gr.33,36	aisi-sae		4360-40D		bs
A570Gr.36	aisi-sae		CEW2BK		bs
A573Gr.58	aisi-sae		Fe360B		bs
A611(A)	aisi-sae		Fe360D1FF		bs
A611Gr.C	aisi-sae		HFS4		bs
Gr.C	aisi-sae		HFW4		bs
K01804	aisi-sae		S235J2G3		bs
K02001	aisi-sae		S235JRG1		bs
K02301	aisi-sae				
K02502	aisi-sae		China		8
K02601	aisi-sae		A3		gb
K02701	aisi-sae		Q235		gb
K02702	aisi-sae		Q235A		gb
			Q235A-F		gb
			Q235A-Z		gb
Italy		12	Q235B		gb
Fe330	uni		Q235B-F		gb
Fe360B	uni		Q235B-Z		gb
Fe360BFU	uni				
Fe360C	uni		France		7
Fe360CFN	uni		A34-2		afnor
Fe360D	uni		E24-3		afnor
Fe360DFF	uni		E24-4		afnor
Fe37-2	uni		S235J0		afnor
S235J0	uni		S235J2G3		afnor
S235J2G3	uni		S235J2G4		afnor
S235J2G4	uni		S235JRG1		afnor
S235JRG1	uni				

Spain	7	Czechia	3
AE235B	une	11343	csn
AE235B-FU	une	11373	csn
AE235D	une	11378	csn
Fe360D1FF	une		
S235J2G3	une	Europe	2
S235JR	une	S205G1T This grade's own name	din-en
S235JRG1	une	Ust 34-2 This grade's own name	din-en
Russia / CIS	6	Japan	2
16D	gost	SS330	jis
16Д	gost	STKM12A	jis
16Д-Ш	gost		
18kp	gost	Poland	2
18kn	gost	St3SX	pn
St3kp	gost	St3W	pn
Bulgaria	5	Austria	2
BSt3kp	bds	St34RG	onorm
Ew-08AA	bds	St37TK	onorm
S235J2G3	bds		
S235JRG1	bds	Belgium	2
WSt3kp	bds	FE360B	nbn
		FED1FF	nbn
Hungary	4	Romania	1
Fe235B/FU	msz	OL37.4	stas
Fe235D	msz		
S235J2G3	msz	Finland	1
S235JRG1	msz	RACOLD215S	sfs
Sweden	3	South Korea	1
1311	ss	SS330 This grade's own name	ks
1312	ss		
1313	ss		

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 Q235B-F

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

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DATASHEET ONLINE

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GRADE SEARCH

Search all grades

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ISSUED

Aug 20, 2026