

MATERIAL NUMBER 1.0038 · CLASS 1.0

Q235A-B

Material no. 1.0038

also listed as RSt 37-2

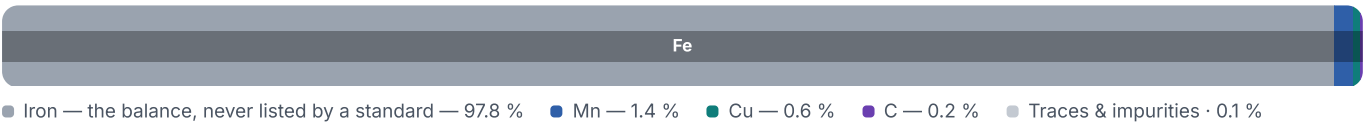
Chemical composition, mechanical and physical property values, and 152 standard designations from 25 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 152 in 25 regions	PROPERTY VALUES 8 on file
------------------------------	--	-------------------------------------

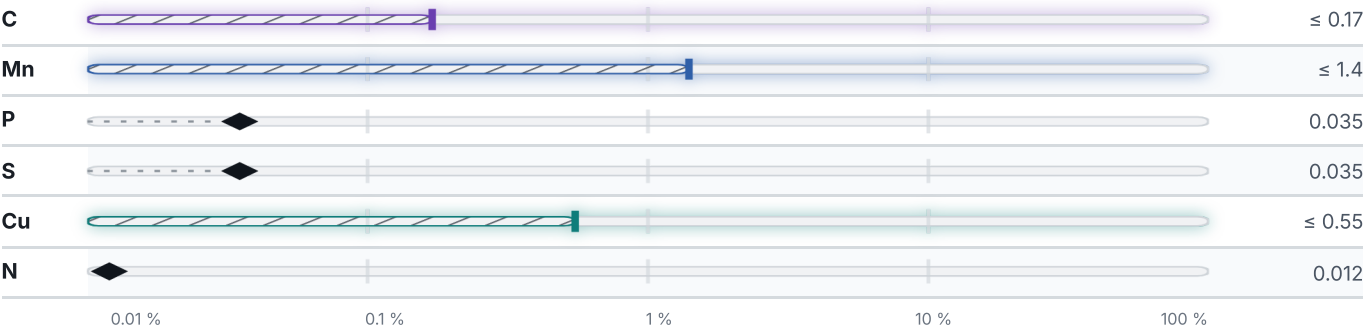
Chemical composition

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: Si, Ni, Cr, Mo.

Mechanical properties

12 values across 2 conditions

NORMALIZED		RM N/mm ²	A %
≤ 100		340	24
100 – 250		340	23
250 – 500		340	23
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
2 - 3.9	370	245	20
4 - 10	370	245	25

Physical properties

2 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	

Designations across standards

152 designations · 9 documented as identical

United States	23	Italy	11
K01500	This grade's own name uns	FE360B	uni
K01702	This grade's own name uns	Fe360BFN	uni
K02401	This grade's own name uns	Fe360C	uni
K02502	This grade's own name uns	Fe360CFN	uni
K03000	This grade's own name uns	Fe360D	uni
A284Gr.D	aisi-sae	Fe360DFF	uni
A570	aisi-sae	Fe37-2	uni
A570 Gr. 36	aisi-sae	S235J0	uni
A570.36	aisi-sae	S235J2G3	uni
A573Gr.58	aisi-sae	S235J2G4	uni
A611Gr.C	aisi-sae	S235JRG2	uni
Gr.36	aisi-sae		
GradeC	aisi-sae	China	10
K01804	aisi-sae	15	gb
K02001	aisi-sae	40B This grade's own name	gb
K02301	aisi-sae	A3	gb
K02502	aisi-sae	Q235	gb
K02601	aisi-sae	Q235-A	gb
K02701	aisi-sae	Q235A-B	gb
K02702	aisi-sae	Q235A-Z	gb
M1017	aisi-sae	Q235B	gb
A283GRC	astm	Q235B-Z	gb
A570	astm	Q235C	gb
United Kingdom	22	France	9
050A17	bs	A37-2	afnor
1449-27/23CR	bs	E 24-2 Ne –	afnor
1449-37/23CR	bs	E24-2	afnor
37/23HR	bs	E24-3	afnor
40B	bs	E24-4	afnor
40C	bs	S235J0	afnor
40D	bs	S235J2G3	afnor
4360 40 C	bs	S235J2G4	afnor
4360-40B	bs	S235JRG2	afnor
4360-40D	bs		
4449-250	bs	Spain	8
722M24	bs	AE235B-FN	une
Fe360BFU	bs	AE235BFU	une
Fe360D1FF	bs	AE235D	une
Gr 40A	bs	Fe360BFN	une
HFS3	bs	Fe360BFU	une
HFS4	bs	Fe360D1FF	une
HFW3	bs	S235J2G3	une
HFW4	bs	S235JRG2	une
S235J2G3	bs		
S235JR	bs		
S235JRG2	bs		

Japan	7	International	4
SAPH38	jis	E235-B	iso
SS330	jis	E235-C	iso
SS34	jis	Fe360-C	iso
SS400	jis	Fe360B	iso
STKM 12A	jis		
STKM 12A STKM 12C	jis	Sweden	4
STKM 12C	jis	1311	ss
		1312	ss
Poland	7	1312-00	ss
St3S	pn	1313	ss
St3SX	pn		
St3SY	pn	Czechia	4
St3V	pn	11342	csn
St3V St3VY	pn	11373	csn
St3VY	pn	11375	csn
St3W	pn	11378	csn
Hungary	7	Finland	4
37 B	msz	Fe37B	sfs
A 38 B	msz	FORM300H	sfs
Fe 235 B	msz	RACOLD03F	sfs
Fe235B/FN	msz	RACOLD215S	sfs
Fe235D	msz		
S235J2G3	msz	Brazil	3
S235JRG2	msz	NBR 6648 CG26	abnt
		NBR 6650 CF26	abnt
Bulgaria	7	NBR 7007 MR250	abnt
BSt3ps	bds		
BSt3sp	bds	Romania	3
Ew-08AA	bds	OL37.1	stas
S235J2G3	bds	OL37.2	stas
S235JRG2	bds	OL37.4	stas
WSt3ps	bds		
WSt3sp	bds	Belgium	3
		FE360BFN	nbm
Europe	5	FE360BFU	nbm
1.0038	din-en	FED1FF	nbm
Fe360BFN	din-en		
RSt 37-2 This grade's own name	din-en	Slovakia	1
S235JR This grade's own name	din-en	11 375	stn
S235JRG2 This grade's own name	din-en		
		Serbia	1
Russia / CIS	5	Č.0361	srps
S245	gost		
St3ps	gost	Croatia	1
St3sp	gost	Č0361	hrn
C245	gost		
Ct3cn	gost	South Africa	1
		240 WA	sans

Austria	1	Canada	1
RSt360B	onorm	230G	csa

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 Q235A-B

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

[Start an enquiry](#)

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.0038	Aug 20, 2026