

MATERIAL NUMBER 1.0038 · CLASS 1.0

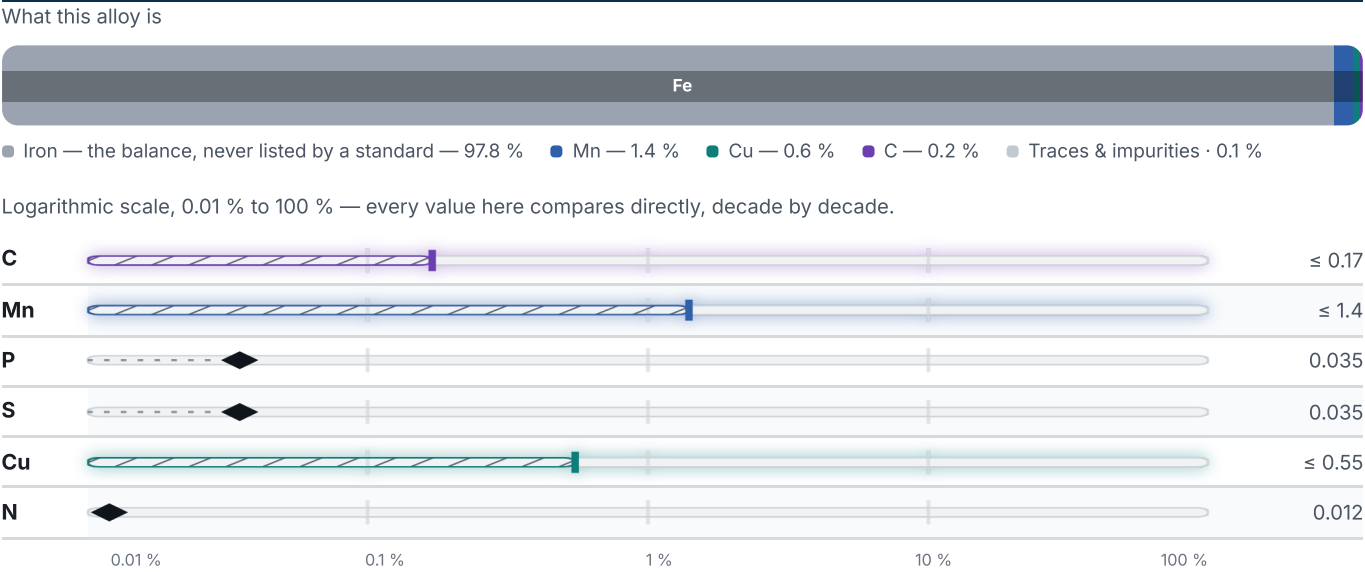
1.0038

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
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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: Si, Ni, Cr, Mo.

Mechanical properties

12 values across 2 conditions

NORMALIZED	RM N/mm²	A %
≤ 100	340	24
100 – 250	340	23

NORMALIZED	RM N/mm ²	A %
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	United Kingdom		22
K01500	This grade's own name	uns	050A17		bs
K01702	This grade's own name	uns	1449-27/23CR		bs
K02401	This grade's own name	uns	1449-37/23CR		bs
K02502	This grade's own name	uns	37/23HR		bs
K03000	This grade's own name	uns	40B		bs
A284Gr.D		aisi-sae	40C		bs
A570		aisi-sae	40D		bs
A570 Gr. 36		aisi-sae	4360 40 C		bs
A570.36		aisi-sae	4360-40B		bs
A573Gr.58		aisi-sae	4360-40D		bs
A611Gr.C		aisi-sae	4449-250		bs
Gr.36		aisi-sae	722M24		bs
GradeC		aisi-sae	Fe360BFU		bs
K01804		aisi-sae	Fe360D1FF		bs
K02001		aisi-sae	Gr 40A		bs
K02301		aisi-sae	HFS3		bs
K02502		aisi-sae	HFS4		bs
K02601		aisi-sae	HFW3		bs
K02701		aisi-sae	HFW4		bs
K02702		aisi-sae	S235J2G3		bs
M1017		aisi-sae	S235JR		bs
A283GRC		astm	S235JRG2		bs
A570		astm			

Italy		11	Japan		7
FE360B	uni		SAPH38	jis	
Fe360BFN	uni		SS330	jis	
Fe360C	uni		SS34	jis	
Fe360CFN	uni		SS400	jis	
Fe360D	uni		STKM 12A	jis	
Fe360DFF	uni		STKM 12A STKM 12C	jis	
Fe37-2	uni		STKM 12C	jis	
S235J0	uni				
S235J2G3	uni		Poland		7
S235J2G4	uni		St3S	pn	
S235JRG2	uni		St3SX	pn	
			St3SY	pn	
China		10	St3V	pn	
15	gb		St3V St3VY	pn	
40B This grade's own name	gb		St3VY	pn	
A3	gb		St3W	pn	
Q235	gb				
Q235-A	gb		Hungary		7
Q235A-B	gb		37 B	msz	
Q235A-Z	gb		A 38 B	msz	
Q235B	gb		Fe 235 B	msz	
Q235B-Z	gb		Fe235B/FN	msz	
Q235C	gb		Fe235D	msz	
			S235J2G3	msz	
France		9	S235JRG2	msz	
A37-2	afnor				
E 24-2 Ne –	afnor		Bulgaria		7
E24-2	afnor		BSt3ps	bds	
E24-3	afnor		BSt3sp	bds	
E24-4	afnor		Ew-08AA	bds	
S235J0	afnor		S235J2G3	bds	
S235J2G3	afnor		S235JRG2	bds	
S235J2G4	afnor		WSt3ps	bds	
S235JRG2	afnor		WSt3sp	bds	
Spain		8	Europe		5
AE235B-FN	une		1.0038	din-en	
AE235BFU	une		Fe360BFN	din-en	
AE235D	une		RSt 37-2 This grade's own name	din-en	
Fe360BFN	une		S235JR This grade's own name	din-en	
Fe360BFU	une		S235JRG2 This grade's own name	din-en	
Fe360D1FF	une				
S235J2G3	une		Russia / CIS		5
S235JRG2	une		S245	gost	
			St3ps	gost	
			St3sp	gost	
			C245	gost	
			Cr3cn	gost	

International	4	Romania	3
E235-B	iso	OL37.1	stas
E235-C	iso	OL37.2	stas
Fe360-C	iso	OL37.4	stas
Fe360B	iso		
Sweden	4	Belgium	3
1311	ss	FE360BFN	nbn
1312	ss	FE360BFU	nbn
1312-00	ss	FED1FF	nbn
1313	ss		
Czechia	4	Slovakia	1
11342	csn	11 375	stn
11373	csn		
11375	csn	Serbia	1
11378	csn	Č.0361	srps
Finland	4	Croatia	1
Fe37B	sfs	Č0361	hrn
FORM300H	sfs		
RACOLD03F	sfs	South Africa	1
RACOLD215S	sfs	240 WA	sans
Brazil	3	Austria	1
NBR 6648 CG26	abnt	RSt360B	onorm
NBR 6650 CF26	abnt		
NBR 7007 MR250	abnt	Canada	1
		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 1.0038
Quotation, availability, mill certificate or a technical question — directly on the material page.

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