

MATERIAL NUMBER 1.0035 · CLASS 1.0

A33

Material no. 1.0035

also listed as S185

Chemical composition, mechanical and physical property values, and 80 standard designations from 22 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 80 in 22 regions	PROPERTY VALUES 1 on file
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Chemical composition

Mass fraction in %

No chemical composition is on file for this material number.

Predicted transformation temperatures

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

Mechanical properties

26 values across 3 conditions

FLAT AND LONG PRODUCTS	REH N/mm ²	RM N/mm ²
≤ 3	—	310–540
3 – 100	—	290–510
≤ 16	185	—
16 – 40	175	—
40 – 63	175	—
63 – 80	175	—
80 – 100	175	—
100 – 150	165	280–500

FLAT AND LONG PRODUCTS	REH N/mm ²	RM N/mm ²		
150 – 250	–	270–490		
150 – 200	155	–		
CONDITION · DIMENSION	A80 % · Lo = 80 mm	A % · Lo = 5,65 √So		
≤ 1	10	–		
1 – 1.5	11	–		
1.5 – 2	12	–		
2 – 2.5	13	–		
2.5 – 3	14	–		
3 – 40	–	18		
40 – 63	–	17		
63 – 100	–	16		
100 – 150	–	15		
150 – 250	–	15		
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %
Rolled stock, GOST 535-2005	305–390	165–195	32–35	–
Wire rods , GOST 30136-95	420–470	–	–	66–68

Physical properties

1 values

CONDITION · DIMENSION			RHO g/cm³
20			7.85
PROPERTY		VALUE	UNIT
Density		7.85	g/cm³

Designations across standards

80 designations · 3 documented as identical

Russia / CIS		27	Europe		4
07Kh24N8M2D3L		gost	Fe310-0		din-en
07X24H8M2Д3Л		gost	Gr.A		din-en
18Kh15N3M-Sh		gost	S185	This grade's own name	din-en
18X15H3M		gost	St 33	This grade's own name	din-en
18X15H3M-Ш		gost			
20		gost	China		4
PA-ZhF1K		gost	Q195		gb
PA-ZhGrDK1		gost	Q195-b		gb
PA-ZhGrF1K		gost	Q195-F		gb
PZhV1		gost	Q195-Z		gb
S235		gost			
ST0		gost	Hungary		4
St1kp		gost	A0		msz
St1ps		gost	Fe 310-0		msz
St1sp		gost	Fe3100		msz
ВКЛ-1		gost	S185		msz
ДИ1		gost			
ДИ1-Ш		gost	Czechia		3
ЖГр0.5Д3К0.8		gost	10000		csn
ЖГр1.2Д2.5К0.8		gost	10004		csn
ЖГр1Д2.5К		gost	11343		csn
ЖФ1К1		gost			
ЖФ1К1Гр0.8		gost	Bulgaria		3
C235		gost	ASt0		bds
Ст0		gost	ASt1		bds
Ст0 Ст1кп		gost	S185		bds
Ст1кп		gost			
			France		2
United States		7	A33		afnor
A283	aisi-sae		S185		afnor
A283A	aisi-sae				
A283B	aisi-sae		Spain		2
A366	aisi-sae		A310-0		une
A570	aisi-sae		S185		une
Gr.A	aisi-sae				
A 283 Grade A	astm		International		2
			E185		iso
			Fe310		iso
			Japan		2
15HR	bs		SS300		jis
15HS	bs		SS330		jis
Fe310-0	bs				
HR 15	bs		Italy		2
S185	bs		Fe320		uni
			S185		uni

Sweden	2	Portugal	1
1300	ss	Fe310-0	np
1300-00	ss		
Slovakia	2	Poland	1
10 000	stn	St0S	pn
10 004	stn		
Austria	2	Romania	1
St00H	onorm	OL32.1	stas
St320	onorm		
Belgium	2	Finland	1
A320	nbn	Fe33	sfs
FE310-0	nbn	South Korea	1
		SS330	This grade's own name ks

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 A33

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	1.0035	Aug 20, 2026