

MATERIAL NUMBER 1.0035 · CLASS 1.0

ASt1

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/cm ³
20			7.85
PROPERTY		VALUE	UNIT
Density		7.85	g/cm ³

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 ASt1

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