

MATERIAL NUMBER 1.0035 · CLASS 1.0

St320

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	
United Kingdom		5			
15HR	bs		Japan		2
15HS	bs				
Fe310-0	bs		SS300	jis	
HR 15	bs		SS330	jis	
S185	bs				
			Italy		2
			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	Finland	1
		Fe33	sfs
Belgium	2	South Korea	1
A320	nbn	SS330 This grade's own name	ks
FE310-0	nbn		

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 St320

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