

ROLLED STEEL FOR DRAWING

BASIC STEEL GRADE 08Yu (08Ю) as per GOST 9045 ($C \leq 0.06\%$)

MECHANICAL PROPERTIES

Steel grade	Standard	Thickness, mm	Ultimate strength, MPa (N/mm ²)	Yield strength, MPa (N/mm ²)	Relative elongation, %, min	Mandrel diameter at 180° bending
08ps (08nc)	GOST 9045*	1.45–14.0	/	/	/	/
CS Type A, B, C	ASTM A 1011	1.45–5.99	/	/	/	/
DD11	EN 10111	3.51–8.00	≤ 440	170–340	28	
SPHT1	JIS G 3132	1.80–2.99	≥ 275	/	32	0a
		3.00–5.99	≥ 275		35	0.5a
		6.00–13.00	≥ 275		37	0.5a
HR4	BS1449	3.51–10.00	≥ 280	≥ 170	25	2.0a
1006	SAE J403	1.45–14.00	/	/	/	/
	ASTM A 830	6.00–14.00				
RRSt23	DIN 1614-1	1.45–8.0	/	/	/	/
RRStW23	DIN 1614-2	1.5–2.9	≤ 420	/	27	/
		3.0–8.0	≤ 420		31	
		8.1–14.0	/		/	

* only chemical composition
/ – parameter is not regulated by the standard

a – rolled product thickness

Relative elongation for steel of grade DD11, thickness 3–8 mm, is determined on samples with initial length of

$$l_0 = 5.65\sqrt{S_0}$$

where S_0 is a cross-section area.

Steel with customized mechanical properties is available upon request.

TOLERANCES FOR DIMENSIONS AND SHAPE OF ROLLED PRODUCTS

Standard for specification	GOST 9045	EN 10111	ASTM A 635	SAE J403	DIN 1614-1 DIN 1614-2
Standard for product mix, geometrical dimensions and tolerances	GOST 19903	EN 10051	ASTM A 635	ASTM A 568	DIN 1016

THICKNESS/WIDTH RATIO FOR ROLLED PRODUCTS

Thickness, mm	Strip width, mm														
	900	1,000	1,100	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,850
1.45–1.89															
1.90–2.49															
2.50–2.99															
3.00–3.19															
≥ 3.20															

Rolled products with customized properties, including thickness/width ratio, are available upon request.