

# SPECIALLY DEOXIDIZED ROLLED STEEL FOR DRAWING

**BASIC STEEL GRADE** 08Yu (08Ю) as per GOST 9045 (C < 0.05%)

## MECHANICAL PROPERTIES

Steel grade	Standard	Thickness, mm	Ultimate strength, MPa (N/mm <sup>2</sup> )	Yield strength, MPa (N/mm <sup>2</sup> )	Relative elongation, %, min	Mandrel diameter at 180° bending
08Yu (08Ю)	GOST 9045*	1.5-14.0	/	/	/	/
08Yu (08Ю)	GOST 1577	4.0-14.0	≥ 310	/	34	/
DS Type A, B	ASTM A 1011	1.45-5.99	/	/	/	/
1006	SAEJ 403	1.45-14.00	/	/	/	/
DD12	EN 10111	1.45-1.99	≤ 420	170-340	25	
		2.00-2.99		170-320	26	
		3.00-8.00		170-320	30	
DD13	EN 10111	1.45-1.99	≤ 400	170-330	28	
		2.00-2.99		170-310	29	
		3.00-8.00		170-310	33	
DD14	EN 10111	1.45-1.99	≤ 380	170-310	31	
		2.00-2.99		170-290	32	
		3.00-8.00		170-290	36	
St24	DIN 1614-1	1.45-8.0	/	/	/	/
StW24	DIN 1614-2	1.80-1.99	≤ 410	≤ 320	/	
		2.00-2.99			30	
		3.00-8.00			34	
SPHD	JIS G 3131	1.80-1.99	≥ 270	/	32	/
		2.00-2.49			33	
		2.50-3.19			35	
		3.20-3.99			37	
		4.00-14.0			39	
SPHE	JIS G 3131	1.80-1.99	≥ 270	/	33	/
		2.00-2.49			35	
		2.50-3.19			37	
		3.20-3.99			39	
		4.00-14.0			41	

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

a – rolled product thickness  
Relative elongation for rolled steel grades DD12, DD13, DD14, 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	GOST 1577	EN 10111	SAEJ403 ASTM A 1011 ASTM A 1018 ASTM A 830	DIN 1614-1 DIN 1614-2
Standard for product mix, geometrical dimensions and tolerances	GOST 19903	GOST 19903	EN 10051	ASTM A 568 ASTM A 635	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.