

STRENGTH CLASS 300 MPA

BASIC STEEL GRADE 10 as per GOST 1050

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
10	GOST 16523	1.5-3.9	300-480	/	23	1.0a
10	GOST 1577	4.0-14.0	≥ 290		32	0.5a
30	ASTM A 1011	1.45-1.59	≥ 340	≥ 205	21	1.0a
		1.60-2.49			24	
		2.50-5.99			25	
	ASTM A 1018	6.00-8.00			22	/
		8.01-14.00			17	
B	ASTM A 283	6.00-8.00	≥ 345-450	≥ 185	28	/
		8.01-14.00			25	
1010	SAEJ403	1.45-14.00	/	/	/	/
1010	ASTM A 830	6.00-14.00	/	/	/	/
SPHT2	JIS G 3132	1.8-2.99	≥ 343	/	27	1.0a
		3.00-5.99			30	1.5a
		6.00-13.00			32	1.5a

/ – parameter is not regulated by the standard

o – as agreed by the parties

a – rolled product thickness

Steel with customized mechanical properties is available upon request.

TOLERANCES FOR DIMENSIONS AND SHAPE OF ROLLED PRODUCTS

Standard for specification	GOST 16523 GOST 1577	SAEJ403 ASTM A 1011 ASTM A 1018 ASTM A 830	JIS G 3132
Standard for product mix, geometrical dimensions and tolerances	GOST 19903	ASTM A 568 ASTM A 635	JIS G 3132 JIS G 3193

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
1.45-1.99															
2.00-2.49															
2.50-2.99															
3.00-3.49															
3.50-3.99															
> 4.00															

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