

STRENGTH CLASS 400 MPA

BASIC STEEL GRADE St3sp (Ст3сп) as per GOST 380

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	Impact energy, J, min
St3sp (Ст3сп)	GOST 16523	1.8–2.0	360–530	/	20	1.0a	/
	GOST 16523	2.1–3.9	360–530	/	22	2.0a	/
	GOST 14637	4.0–14.0	370–480	/	26	1.5a	/
36 Type 1	ASTM A 1011	1.80–5.99	≥ 365	≥ 250	22	1.5a	/
36	ASTM A 1018	6.00–8.00	≥ 365	≥ 250	15	/	/
		8.01–14.00			21		
1015	ASTM A 659	1.80–5.99	/	/	/	2.0a	/
	ASTM A 830	6.00–14.00	/	/	/	/	/
1017	ASTM A 659	1.80–5.99	/	/	/	2.0a	/
SS400	JIS G 3101	1.80–5.00	400–510	≥ 245	21	1.5a	/
		5.01–14.0			17		
C	ASTM A 283	4.50–8.00	380–515	≥ 205	25	/	/
		8.01–14.00			22		
P265NB	EN 10120:2008	2.00–2.99	≥ 265	410–500	24	/	/
P310NB	EN 10120:2008	1.80–2.49	≥ 310	460–550	21	/	/
SG295	JIS G 3116:2013	2.00–2.99	≥ 295	≥ 440	26	1.5a	/

/ – parameter is not regulated by the standard

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 14637	ASTM A 659 ASTM A 1011	ASTM A 1018	JIS G 3101	JIS G 3132
Standard for product mix, geometrical dimensions and tolerances	GOST 19903	ASTM A 568	ASTM A 635	JIS G 3193	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															
3.00–3.99															
> 4.00															

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