



HSS 500 SIZE AVAILABLE



Grade	% Chemical Composition (Max)					Mechanical Properties (Min)		
						Yield Strength	Tensile Strength	Elongation
	C	Si	Mn	P	S	MPa	MPa	Mpa
STK500	≤ 0.24	Max 0.35	0.30 - 1.30	≤ 0.040	≤ 0.040	370	500	

Nominal Size (In)	Outside Diameter (mm.)	Thickness (mm.)	Informative reference			
			Weight (Kg.)	Cross sectional Area (cm ²)	Geometrical moment of Inertia (cm ⁴)	Radius of gyration of area (cm)
1-1/2"	47.5	2.3	2.56	3.27	8.36	1.6
2-1/2"	76.3	2.3	4.18	5.33	36.19	2.61
3"	88.7	2.3	4.9	6.24	58.3	3.06
3-1/2"	101.6	2.3	5.63	7.18	88.48	3.51
4"	113.5	2.3	6.31	8.03	124.25	3.93
6"	165.2	3.6	14.4	18.28	596.9	5.71
6"	165.2	4.5	17.8	22.72	733.94	5.68
8"	216.3	4.5	23.5	29.94	1679.76	7.49

Dimension Tolerances	Outside Diameter		Thickness			
	Class 1	OD < 50 mm.	±0.5 mm.	Class 1	t < 4.0 mm.	-0.5 mm. , +0.6 mm.
		OD ≥ 50 mm.	±1%		4.0 mm. ≤ t < 12.0 mm.	-12.5% , +15%
	Class 2	OD < 50 mm.	±0.25 mm.		t ≥ 12.0 mm.	-1.5 mm. , +15%
OD ≥ 50 mm.		± 0.5%	Class 2	t < 3.0 mm.	±0.3 mm.	
				3.0 mm. ≤ t < 12.0 mm.	±10%	
t ≥ 12.0 mm.	-1.2 mm. , +10%					