

STEEL PIPES FOR ORDINARY PURPOSES AND PIPING SYSTEM



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Chemical Composition		Chemical Composition		Class	Marking Color
	Max		Min	light	Brown
Carbon	0.20	Tensile	320 - 460 MPa	Medium	Blue
Silicon	-	Yield	195 MPa	Heavy	Red
Manganese	1.20	Elongation	20%		
Phosphorus	0.045				
Sulphur	0.045				

BS 1387: CARBON STEEL PIPES FOR ORDINARY PIPING

Nominal Size		Thickness	Outside Diameter		Mass per Unit Length		Threads per Inch	Hydro Test Pressure
					Plain End	Thread & Couplings		psi
inch	mm	mm	min	max	kg/m	kg/m		
LIGHT CLASS								
1/2"	15	2.0	21.0	21.4	0.947	0.96	14	700
3/4"	20	2.3	26.4	26.9	1.38	1.39	14	700
1"	25	2.6	33.2	33.8	1.98	2.00	11	700
1 1/4"	32	2.6	41.9	42.5	2.54	2.57	11	700
1 1/2"	40	2.9	47.8	48.4	3.23	3.27	11	700
2"	50	2.9	59.6	60.2	4.08	4.15	11	700
2 1/2"	65	3.2	75.2	76.0	5.71	5.83	11	700
3"	80	3.2	87.9	88.7	6.72	6.89	11	700
4"	100	3.6	113.0	113.9	9.75	10.00	11	700
MEDIUM CLASS								
1/2"	15	2.6	21.1	21.7	1.21	1.22	14	700
3/4"	20	2.6	26.6	27.2	1.56	1.57	14	700
1"	25	3.2	33.4	34.2	2.41	2.43	11	700
1 1/4"	32	3.2	42.1	42.9	3.10	3.13	11	700
1 1/2"	40	3.2	48.0	48.8	3.57	3.61	11	700
2"	50	3.6	59.8	60.8	5.03	5.10	11	700
2 1/2"	65	3.6	75.4	76.6	6.43	6.55	11	700
3"	80	4.0	88.1	89.5	8.37	8.54	11	700
4"	100	4.5	113.3	114.9	12.2	12.5	11	700
5"	125	5.0	138.7	140.6	16.6	17.1	11	700
6"	150	5.0	164.1	166.1	19.7	20.3	11	700
HEAVY CLASS								
1/2"	15	3.2	21.1	21.7	1.44	1.45	14	700
3/4"	20	3.2	26.6	27.2	1.87	1.88	14	700
1"	25	4.0	33.4	34.2	2.94	2.96	11	700
1 1/4"	32	4.0	42.1	42.9	3.80	3.83	11	700
1 1/2"	40	4.0	48.0	48.8	4.38	4.42	11	700
2"	50	4.5	59.8	60.8	6.19	6.26	11	700
2 1/2"	65	4.5	75.4	76.6	7.93	8.05	11	700
3"	80	5.0	88.1	89.5	10.3	10.5	11	700
4"	100	5.4	113.3	114.9	14.5	14.8	11	700
5"	125	5.4	138.7	140.6	17.9	18.4	11	700
6"	150	5.4	164.1	166.1	21.3	21.9	11	700

TOLERANCE

WT

Light class: - 8%, + unlimited

Medium and heavy class : - 10%, + unlimited

Weight

-8%, +10%