



EN 10255 : ท่อเหล็กกล้า (เปลี่ยนจาก BS 1387)

Carbon Steel Pipe (Transition from BS 1387)

ชั้นคุณภาพ Material of Grade		ส่วนประกอบทางเคมี (ไม่เกินร้อยละ) Chemical Composition (%)					สมบัติทางกล (ไม่น้อยกว่า) Mechanical Properties		
Steel Name	Steel Number	C	Si	Mn	P	S	ความเค้นดึง Yield Strength	ความเค้นคราก Tensile Strength	ความยืด Elongation
		Max	Max	Max	Max	Max	MPa	MPa	%
S 195 T	1.0026	0.200	-	1.400	0.035	0.030	195	320 to 520	20

H Series

Nominal Size	Specified Outside Diameter	Deignation of Thread	Outside Diameter		Wall Thick-ness	Calculated	
			Max	Min		Plain End	Threaded and Stocketed
mm.	mm.		mm.	mm.	mm.	kg./m.	kg./m.
6	10.2	1/8	10.6	9.8	2.6	0.487	0.490
8	13.5	1/4	14.0	13.2	2.9	0.765	0.769
10	17.2	3/8	17.5	16.7	2.9	1.02	1.30
15	21.3	1/2	21.8	21.0	3.2	1.44	1.45
20	26.9	3/4	27.3	26.5	3.2	1.87	1.88
25	33.7	1	34.2	33.3	4.0	2.93	2.95
32	42.4	1 1/4	42.9	42.0	4.0	3.79	3.82
40	48.3	1 1/2	48.8	47.9	4.0	4.37	4.41
50	60.3	2	60.8	59.7	4.5	6.19	6.26
65	76.1	2 1/2	76.6	75.3	4.5	7.93	8.05
80	88.9	3	89.5	88.0	5.0	10.3	10.5
100	114.3	4	115.0	113.1	5.4	14.5	14.8
125	139.7	5	140.8	138.5	5.4	17.9	18.4
150	165.1	6	166.5	163.9	5.4	21.3	21.9

L Series

Nominal Size	Specified Outside Diameter	Deignation of Thread	Outside Diameter		Wall Thick-ness	Calculated	
			Max	Min		Plain End	Threaded and Stocketed
mm.	mm.		mm.	mm.	mm.	kg./m.	kg./m.
8	13.5	1/4	13.9	13.2	2.0	0.567	0.571
10	17.2	3/8	17.4	16.7	2.0	0.750	0.756
15	21.3	1/2	21.7	21.0	2.3	1.08	1.09
20	26.9	3/4	27.1	26.4	2.3	1.40	1.41
25	33.7	1	34.0	33.2	2.9	2.20	2.22
32	42.4	1 1/4	42.7	41.9	2.9	2.82	2.85
40	48.3	1 1/2	48.6	47.8	2.9	3.25	3.29
50	60.3	2	60.7	59.6	3.2	4.51	4.58
65	76.1	2 1/2	76.0	75.2	3.2	5.75	5.87
80	88.9	3	88.7	87.9	3.2	6.76	6.93
90	101.6	3 1/2	101.2	100.3	3.6	8.70	8.88
100	114.3	4	113.9	113.0	3.6	9.83	10.1
125	139.7	5	140.8	138.5	4.5	15.0	15.5
150	165.1	6	166.5	163.9	4.5	17.8	18.4

M Series

Nominal Size	Specified Outside Diameter	Deignation of Thread	Outside Diameter		Wall Thick-ness	Calculated	
			Max	Min		Plain End	Threaded and Stocketed
mm.	mm.		mm.	mm.	mm.	kg./m.	kg./m.
6	10.2	1/8	10.6	9.8	2.0	0.404	0.407
8	13.5	1/4	14.0	13.2	2.3	0.641	0.645
10	17.2	3/8	17.5	16.7	2.3	0.84	0.845
15	21.3	1/2	21.8	21.0	2.6	1.21	1.22
20	26.9	3/4	27.3	26.5	2.6	1.56	1.57
25	33.7	1	34.2	33.3	3.2	2.41	2.43
32	42.4	1 1/4	42.9	42.0	3.2	3.10	3.13
40	48.3	1 1/2	48.8	47.9	3.2	3.56	3.60
50	60.3	2	60.8	59.7	3.6	5.03	5.10
65	76.1	2 1/2	76.6	75.3	3.6	6.42	6.54
80	88.9	3	89.5	88.0	4.0	8.36	8.50
100	114.3	4	115.0	113.1	4.5	12.2	12.5
125	139.7	5	140.8	138.5	5.0	16.6	17.1
150	165.1	6	166.5	163.9	5.0	19.8	20.4

L1 Series

Nominal Size	Specified Outside Diameter	Deignation of Thread	Outside Diameter		Wall Thick-ness	Calculated	
			Max	Min		Plain End	Threaded and Stocketed
mm.	mm.		mm.	mm.	mm.	kg./m.	kg./m.
8	13.5	1/4	13.9	13.2	2.0	0.570	0.574
10	17.2	3/8	17.4	16.7	2.0	0.742	0.748
15	21.3	1/2	21.7	21.0	2.3	1.08	1.09
20	26.9	3/4	27.1	26.4	2.3	1.39	1.40
25	33.7	1	34.0	33.2	2.9	2.20	2.22
32	42.4	1 1/4	42.7	41.9	2.9	2.82	2.85
40	48.3	1 1/2	48.6	47.8	2.9	3.24	3.28
50	60.3	2	60.7	59.6	3.2	4.49	4.56
65	76.1	2 1/2	76.3	75.2	3.2	5.73	5.85
80	88.9	3	89.4	87.9	3.6	7.55	7.72
100	114.3	4	114.9	113.0	4.0	10.8	11.1

L2 Series

Nominal Size	Specified Outside Diameter	Deignation of Thread	Outside Diameter		Wall Thick-ness	Calculated	
			Max	Min		Plain End	Threaded and Stocketed
mm.	mm.		mm.	mm.	mm.	kg./m.	kg./m.
8	13.5	1/4	13.6	13.2	1.8	0.515	0.519
10	17.2	3/8	17.1	16.7	1.8	0.670	0.676
15	21.3	1/2	21.4	21.0	2.0	0.947	0.956
20	26.9	3/4	26.9	26.4	2.3	1.38	1.39
25	33.7	1	33.8	33.2	2.6	1.98	2.00
32	42.4	1 1/4	42.5	41.9	2.6	2.54	2.57
40	48.3	1 1/2	48.4	47.8	2.9	3.23	3.27
50	60.3	2	60.2	59.6	2.9	4.08	4.15
65	76.1	2 1/2	76.0	75.2	3.2	5.71	5.83
80	88.9	3	88.7	87.9	3.2	6.72	6.89
100	114.3	4	113.9	113.0	3.6	9.75	10.0

Color Makring

Series/Type	Color
H series	Red
M series	Blue
Type L	Green
Type L1	White
Type L2	Brown

Dimension Tolerances

Thickness H and M series and Type L : $\pm 10\%$
Type L1 and L2 : -8% with the plus tolerance limited by the mass tolerance

Weight H and M series and Type L : $\pm 7.5\%$ on budles of 10 tons or more
Type L1 and L2 : +10%, -8% on individual tubes

Hydrostatictest 50 bar

