

Technical data of IS: 3601 1984 Tubes for Mechanical & General Engg. Purpose

Size	OD (MM)	Wall Thickness	Nominal Weight	
			Plain End	
in MM		MM	KG/M	Mtr/Ton
15 mm	21.30	1.80	0.87	1155
		2.00	0.95	1050
		2.60	1.20	834
		3.20	1.43	700
		4.00	1.71	586
20 mm	26.90	1.80	1.11	897
		2.00	1.23	814
		2.30	1.40	717
		2.60	1.56	642
		3.20	1.87	535
25 mm	33.70	4.00	2.26	443
		2.00	1.56	640
		2.30	1.78	561
		2.60	1.99	501
		3.20	2.41	415
32 mm	42.4	4.00	2.93	341
		4.50	3.24	309
		2.30	2.27	440
		2.60	2.55	392
		3.20	3.09	323
40 mm	48.3	3.60	3.44	290
		4.00	3.79	264
		5.00	4.61	217
		5.40	4.93	203
		2.30	2.61	383
50 mm	60.30	2.60	2.93	341
		2.90	3.25	308
		3.20	3.56	281
		4.00	4.37	229
		4.90	5.24	191
		5.00	5.34	187
		5.60	5.90	170
		5.90	6.17	162
		2.30	3.29	304
		2.60	3.70	270
		2.90	4.11	244
		3.20	4.51	222
		3.60	5.03	199
		4.00	5.55	180
		4.50	6.19	161
		5.00	6.82	147
		5.60	7.55	132
		6.30	8.39	119

65 mm	76.10	2.60	4.71	212
		3.20	5.75	174
		3.60	6.44	155
		4.00	7.11	141
		4.50	7.95	126
		5.00	8.77	114
		5.40	9.42	106
		6.30	10.84	92
80 mm	88.90	7.10	12.08	83
		2.90	6.15	163
		3.20	6.76	148
		4.00	8.38	119
		5.00	10.35	97
		5.40	11.12	90
		5.60	11.50	87
		6.30	12.83	78
90 mm	101.60	8.00	15.96	63
		3.60	8.70	115
		4.00	9.63	104
100 mm	114.30	5.00	11.91	84
		3.20	8.77	114
		3.60	9.83	102
		4.50	12.19	82
		5.40	14.50	69
		6.30	16.78	60
		8.00	20.97	48
		8.80	22.90	44
110 mm	127.00	4.50	13.59	74
		5.00	15.04	66
		5.40	16.19	62
125 mm	139.70	3.60	12.08	83
		4.00	13.39	75
		0.50	1.72	583
		5.00	16.61	60
		5.40	17.89	56
		6.30	20.73	48
		8.00	25.98	38
		10.00	31.99	31
135 mm	152.40	4.50	16.41	61
		5.00	18.18	55
		5.40	19.58	51
150 mm	165.10	4.50	17.82	56
		5.00	19.74	51
		5.40	21.27	47
		6.30	24.67	41

150 mm	168.30	4.00	16.21	62
		4.50	18.18	55
		5.00	20.14	50
		5.40	21.69	46
		6.30	25.17	40
		7.10	28.23	35
		8.00	31.63	32
		11.00	42.67	23
175 mm	193.70	5.00	23.27	43
		5.40	25.08	40
		5.90	27.33	37
		6.30	29.12	34
		8.00	36.64	27
200 mm	219.10	4.50	23.82	42
		5.00	26.40	38
		5.60	29.49	34
		6.30	33.06	30
		8.00	41.65	24
		12.50	63.69	16
225 mm	244.50	5.90	34.72	29
		7.10	41.57	24
		8.00	46.66	21
250 mm	273.10	5.00	33.06	30
		6.30	41.45	24
		7.10	46.58	21
		10.00	64.88	15

Tolerance		
Over	Up to and Including	Tolerance on Outside Dia
-	25.4	+ - 0.15
25.4	51	+ - 0.18
51	63.5	+ - 0.25
63.5	6.1	+ - 0.25
76.1	88.9	+ - 0.31
88.9	101.6	+ - 0.36
101.6	114.3	+ - 0.43
114.3	152.4	+ - 0.58
152.4	168.3	+ - 0.65
168.3	-	+ - 0.75

Physical Properties				
Tube Designation	Tensile Strength (Min)	Yield Stress (Min)	Elongation	
			Less than 33.7	Above 33.7
WT 160	310	160	15	22
WT 210	330	210	12	20
WT 240	410	240	10	15
WT 310	450	310	6	10