BS 1387: 1985

Screwed and socketed steel tubes and tubulars and for plain end steel tubes suitable for welding or for screwing to BS 21 pipe threads

Chemical composition (ladle)				Mechanical properties at room temperature			
				Tensile	Yield	Elongation on gauge length	
				Strength	Strength	Lo=5.65ÖSo	
C	Mn	P	S	Rm	Re (min.)	A (min.)	
%	%	%	%	N/mm2	N/mm2	%	

## **Tolerances**

The tolerances on the outside diameter, thickness, mass and length shall be as follows.

## (a) Outside diameter.

Medium and heavy tubes as given in tables 4 and 5 respectively

### (b) Thickness

Medium and heavy tubes - 10%

#### (c) Mass

The mean consignment mass for quantities of 150 m and over of one size shall not deviate by more than  $\pm$  4% from the mass of the consignment calculated from the masses given in tables 3,4 and 5 as appropriate. No single tube shall deviate by more than  $\pm$  8% from the mass given in tables 3,4 and 5 as appropriate.

## (d) Length

Random lengths. When random lengths are ordered, tubes shall be supplied in one of the following ways:

- (a) in random lengths from 4 m to 7 m;
- (b) (for orders of over 150 m of any one size of tube) in random lengths from 1.8 m to 4 m provided that the number of such lengths does not exceed 7.5% of the total number of lengths for DN 65 to DN 100 inclusive, and 5% for all other sizes.
- (c) as for (B) but including tubes with two lengths joined together to make a random length, provided that the number of such jointed lengths does not exceed 7.5% of the total number of lengths for DN 65 to DN 100 inclusive and 5% for all other sizes.
- (2) Mill lengths. When mill lengths are required tubes shall be supplied in lengths of 6.4 m minimum. No tube shall exceed this length by more than 150 mm.
- (3) Approximate lengths. Where approximate lengths are required, either for screwed and socketed tunes or for plain end tubes, each tube shall be within  $\pm$  150 mm of the specified length.
- (4) Exact lengths. Where exact lengths are required, either for screwed and socketed tunes or for plain end tubes, each tube shall be within +6 mm of the specified length.

NOTE. The purchaser should state in the enquiry or order which lengths he requires.

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Nominal	Designation of thread	Outside diameter		Thickness	Mass of black tube	
size (DN)		max. mm	min. mm	mm	Plain end kg/m	Screwed and socketed kg/m
8	1/4	13.9	13.3	2.3	0.641	0.645
10	3/8	17.4	16.8	2.3	0.839	0.845
15	1/2	21.7	21.1	2.6	1.21	1.22
20	3/4	27.2	26.6	2.6	1.56	1.57
25	1	34.2	33.4	3.2	2.41	2.43
32	11/4	42.9	42.1	3.2	3.10	3.13
40	11/,	48.8	48.0	3.2	3.57	3.61
50	2	60.8	59.8	3.6	5.03	5.10
65	21/2	76.6	75.4	3.6	6.43	6.55
80	3	89.5	88.1	4.0	8.37	8.54
100	4	114.9	113.3	4.5	12.2	12.5
125	5	140.6	138.7	5.0	16.6	17.1
150	6	166.1	164.1	5.0	19.7	20.3

Nominal size (DN)	Designation of thread	Outside diameter		Thickness	Mass of black tube	
		max. mm	min. mm	mm	Plain end kg/m	Screwed and socketed kg/m
	1/	10.0	10.0			
8	1/4	13.9	13.3	2.9	0.765	0.769
10	3/8	17.4	16.8	2.9	1.02	1.03
15	1/2	21.7	21.1	3.2	1.44	1.45
20	3/4	27.2	26.6	3.2	1.87	1.88
25	1	34.2	33.4	4.0	2.94	2.96
32	11/4	42.9	42.1	4.0	3.80	3.83
40	11/2	48.8	48.0	4.0	4.38	4.42
50	2	60.8	59.8	4.5	6.19	6.26
65	21/2	76.6	75.4	4.5	7.93	8.05
80	3	89.5	88.1	5.0	10.3	10.5
100	4	114.9	113.3	5.4	14.5	14.8
125	5	140.6	138.7	5.4	17.9	18.4
150	6	166.1	164.1	5.4	21.3	21.9