

OUTSIDE MM	THICKNESS MM	MASS	MTRS/TON
		KG/MTRS.	
63.50	3.65	5.39	186
	4.05	5.94	168
	4.50	6.55	153
	4.85	7.01	143
	5.40	7.74	129
	6.30	8.89	112
76.10	3.65	6.52	153
	4.05	7.20	139
	4.50	7.95	126
	4.85	8.52	117
	5.40	9.42	103
	6.30	10.84	92
88.90	4.05	8.47	118
	4.50	9.37	107
	4.85	10.05	99
	5.40	11.12	90
	6.30	12.83	78
101.60	4.05	9.71	103
	4.50	10.78	93
	4.85	11.57	86
	5.40	12.81	78
	6.30	14.81	68
114.30	4.50	12.19	82
	4.85	13.09	76
	5.40	14.50	69
127.00	4.50	13.59	74
	4.85	14.61	68
	5.40	16.91	62
	6.30	18.75	53
139.70	4.50	15.00	67
	4.85	16.13	62
	5.40	17.89	56
	6.30	20.73	48
152.40	4.50	16.41	61
	4.85	17.65	57
	5.40	19.58	51
	6.30	22.70	44
159.00	4.50	17.15	58
	4.85	18.44	54
	5.40	20.46	49
	6.30	23.72	42
165.10	4.50	17.82	56
	4.85	19.17	52
	5.40	21.27	47
	6.30	24.67	41
168.30	4.50	18.18	55
	4.85	19.55	51
	5.40	21.69	46
	6.30	25.17	40
193.70	5.40	25.08	40
	6.30	26.12	34
219.10	5.40	28.46	36
	6.30	33.06	40

N.B. SERIES	OUTER DIAMETER MM	THICKNESS MM	NORMAL WEIGHT BLACK TUBES PLAIN END	
			KG/M	M/TON
			100	114.30
125	141.30	5.00	16.81	59.50
150	168.30	5.00	20.14	49.66
175	193.70	5.40	25.08	39.88
200	219.10	5.40	28.46	35.14
225	244.50	6.00	35.29	28.34
250	273.10	7.10	46.58	21.47
300	323.90	7.10	55.47	18.03

**A. PHYSICAL PROPERTIES:**

GRADE	YS(MIN) MPA	T.S.(MIN) MPA	% ELOGNATION(MIN)
FE 410	235	410	15
FE 450	275	450	13

**B. TOLERANCES**

- i) Outside diameter of pipe +  $\pm 1\%$
- ii) Thickness +15% / - 12.5%  
upto 406.4 mm OD +15% / - 10%
- iii) weight + 10%  
Single Tube -8%
- iv) Length  
Unless otherwise  
specified 4 to 7 mtrs.  
On request up to 12 mtrs.

TOLERANCE ON OUTSIDE DIAMETER +/- 0.8%

OVALITY BELOW 168.3MM : 0.5MM

OVALITY INCLUDING 168.3MM AND ABOVE : 1.0MM

TOLERANCE ON WEIGHT KG/MTR : SINGLE TUBE : +/- 10%

FOR TRUCK LOAD OF 10 TONNES : +/- 7.5%

TOLERANCE ON THICKNESS : +/- 10%