TECHNICAL DATA

DEFINITIONS:

D - Diameter in mm or inch
t - Wall thickness in mm or inch
L - Length in meters or feet
W - Weight of the Pipe in Kg per meter or lb per foot.

WEIGHT OF THE PIPE & TUBE

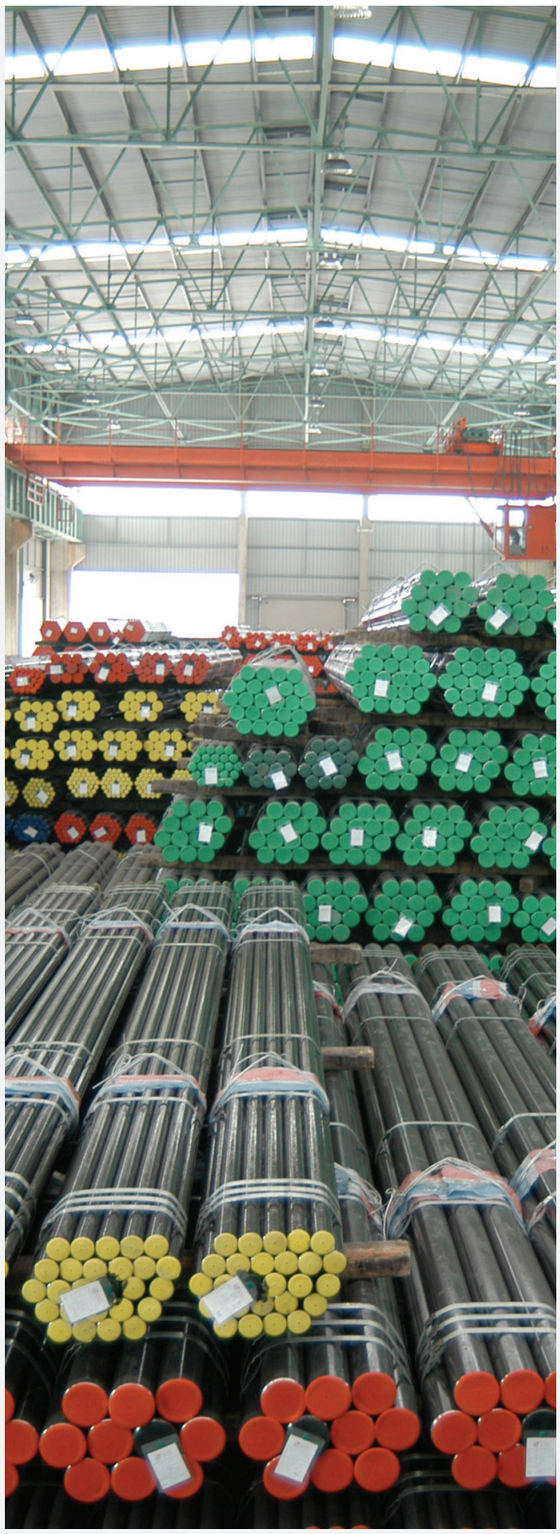
Standard wall thickness with weight per meter and per foot is listed in specifications and those for API 5L and ASME B 36.10M/B36.19M are included in this brochure.

For non-standard wall thickness:

For carbon steel pipes the below formula applies:

Pipe Weight [kg/m] = 0.0246615 x (OD[mm] -wt[mm]) x wt[mm]
For weights per meter of pipe and tube of other materials replace the constant (0.0246615) in the formula above as follows:

MATERIAL	FACTOR
Alloy 400	0.02765
Alloy 600	0.02639
Alloy 800	0.02513
Aluminium	0.00848
Copper	0.02796
Copper-Nickel	0.02796
Duplex	0.02450
Stainless Steel	0.02504
Titanium	0.01414



If without Factor,
Pipe Weight [kg/m] = (π x (OD^2- (OD-(wtx2))^2) × Density) / 4,000
Note - Densities of different materials are given below:

GRADE	DENSITY [KG/M3]	GRADE	DENSITY [KG/M3]
Carbon Steel	7.85	INCONEL 625	8.44
SS304L	7.90	INCOLOY 800	7.95
310, 316L, 317L	7.95	INCOLOY 825	8.14
410-430	7.70	INCOLOY DS	7.91
DUPLEX 22,05	7.80	HASTELLOY B	9.24
254 SMO -904 L	8.00	HASTELLOY B-2	9.22
SANICRO 28	8.10	HASTELLOY C-4	8.64
NICKEL 200-201	8.89	HASTELLOY C-276	8.87
MONEL 400	8.83	CARPENTER 20 Cb-3	8.10
INCONEL 600	8.42	TITANIUM	4.51
INCONEL 601	8.06		