

| TUBE TYPE | SIZE   |         | OD(Minimum) |      | OD(Maximum) |      | Wall Thickness |     | Weight of Tube |         | Pieces per Bundle |
|-----------|--------|---------|-------------|------|-------------|------|----------------|-----|----------------|---------|-------------------|
|           | INCH   | NB (mm) | INCH        | MM   | INCH        | MM   | INCH           | MM  | lb/Ft          | Kg./Mtr |                   |
| 3         | 1 1/2" | 40      | 1.882       | 47.8 | 1.921       | 48.8 | 0.126          | 3.2 | 2.392          | 3.56    | 61                |
| 4         | 1 1/2" | 40      | 1.882       | 47.8 | 1.921       | 48.8 | 0.157          | 4   | 2.936          | 4.37    | 50                |

**1) TOLERANCES**

a) : On Specified OD  $\pm 0.5$  mm (Ovality 0.4 mm)

The inside diameter of tube shall allow insertion of a gauges of 37.70 mm dia for a minimum length of 200 mm.

b) : On wall Thickness - 10%

c) : Straightness- 1 in 500 (In 1 meter it should not exceed 3 mm)

d) : The mass deviation on a single tube shall not exceed-7.5% of the specified mass

**2) ENDS**

: Cut cleanly and nominally square with the axis of the tube and free from excessive burrs.

**3) PROPERTIES**

a) : Chemical: % Max.C - 0.20%, Si - 0.05%, Mn - 1.40%, P - 0.040%,S- 0.045%, Al-0.02% Min.

b) : Mechanical: UTS - 340-520 N/mm<sup>2</sup>, YS - 235 N/mm<sup>2</sup>, (Min.) &Elongation - 24%min.

**4) FLATTENING TEST**

a) : For Weld-Flatten up to 75% of Original Tube

b) : For Material-Flatten Up to 60 of original tube

**5) Zinc Coating (Galvanizing)**

Minimum Local Coating Thickness on the outside surface 40 microns.

**6) MARKING**

a) : We can emboss mill sign " EN39 UTP 3 or 4" online at every one meter interval over the length of pipe.

b) : We can do online stenciling as per customer need.

**7) PACKING**

: Hexagonal Type

**8) MILL TEST CERTIFICATE**

We can issue a MTC,Certifying that the tube supplied comply with this standard