

Element	Percentage
<b>Carbon</b>	≤ 0.20
<b>Manganese</b>	≤ 1.40
<b>Phosphorus</b>	≤ 0.040
<b>Sulphur</b>	≤ 0.045
<b>Nitrogen</b>	≤ 0.009

Tensile Strength Rm N/mm <sup>2</sup>	≥ 340
	≤ 520
Yield Stress ReH N/mm <sup>2</sup>	≥ 235
Elongation A	≥ 24%
(on $Lo = 5.65 \times (So)^{1/2}$ ) 1) In accordance with BS 18	
Lo = Original Gauge length of tensile test piece	
So = Original Cross sectional area of the gauge length	

Tube	Nominal Values Type 4.0	Tolerance
<b>Wall Thickness</b>	3.2/ 4.0 mm	-10.0% <sup>1)</sup>
<b>Outside Diameter (Including Ovality)</b>	48.3 mm	± 0.5 mm
<b>Mass, Single Tube</b>	3.56/ 4.37 kg/m	-7.5% max
<b>Mass batches of Tubes (10 tons or more)</b>	3.56/ 4.37 kg/m	± 7.5%

**Note:** The inside diameter of Tubes shall allow insertion of a gauge of diameter 37,7 mm for a minimum length of 200 mm

1) Upper Tolerance- Governed by the tolerance on the mass
Lower Tolerance: Wall thickness shall be at least 3.6mm on type 4.0 tube; a tolerance of -15% being allowed in isolated places over a length not exceeding 100mm, but only if the decrease in thickness affects only the external surface
2) The tolerances for the inside diameter shall also include the weld zone.

Length	Length	Tolerance of Length
Std Length: 6 m and 6.4 m		- 50 mm, + 150 mm
Exact length 6 to 12 m	6 mts	+ 10, - 0
	6 to 12 mts	+ 15, - 0