

# Plumbing Copper Tubes Mechanical Properties Data Sheet



## Mechanical Properties

**BS EN 1057** Plumbing Copper Tubes

**Dimensions and Tolerances** (includes chrome plated and PVC covered)

**LAWTON**  
PLUMBING

O.D. (mm)	Wall (mm)	Temper	Max Working Pressure bar up	Thickness Tolerance	Diameter Tolerance	
					Mean	Including Ovality
6	0.6 (TX)	Half Hard	133	±10%	± 0.04mm	±0.09mm
6	0.6	Soft	90	±10%	± 0.04mm	Not applicable
6	0.8 (TY)	Half Hard	188	±10%	± 0.04mm	±0.09mm
8	0.6 (TX)	Half Hard	97	±10%	± 0.04mm	±0.09mm
8	0.6	Soft	66	±10%	± 0.04mm	Not applicable
8	0.8 (TY)	Half Hard	136	±10%	± 0.04mm	±0.09mm
10	0.6 (TX)	Half Hard	77	±10%	± 0.04mm	±0.09mm
10	0.7 (TY)	Soft	62	±10%	± 0.04mm	Not applicable
10	0.8 (TY)	Half Hard	106	±10%	± 0.04mm	±0.09mm
12	0.6 (TX)	Half Hard	63	±10%	± 0.04mm	±0.09mm
12	0.8 (TY)	Half Hard	87	±10%	± 0.04mm	±0.09mm
15	0.7 (TY)	Half Hard	58	±10%	± 0.04mm	±0.09mm
15	1.0 (TX)	Half Hard	87	±13%	± 0.04mm	±0.09mm
15	1.0 (TY)	Soft	67	±13%	± 0.04mm	Not applicable
22	0.9 (TX)	Half Hard	51	±10%	± 0.05mm	±0.10mm
22	1.2 (TY)	Half Hard	69	±15%	± 0.05mm	±0.10mm
22	1.2 (TY)	Soft	57	±15%	± 0.05mm	Not applicable
28	0.9 (TX)	Half Hard	40	±10%	± 0.05mm	±0.10mm
28	1.2 (TY)	Half Hard	55	±15%	± 0.05mm	±0.10mm
35	1.0 (LiteX)	Hard	42	±15%	± 0.06mm	±0.07mm
35	1.2 (TX)	Half Hard	42	±10%	± 0.06mm	±0.11mm
35	1.5 (TY)	Hard	64	±10%	± 0.06mm	±0.07mm
42	1.0 (LiteX)	Hard	35	±15%	± 0.06mm	±0.07mm
42	1.2 (TX)	Half Hard	35	±10%	± 0.06mm	±0.11mm
42	1.5 (TY)	Hard	53	±10%	± 0.06mm	±0.07mm
54	1.2 (LiteX)	Hard	33	±15%	± 0.06mm	±0.07mm
54	1.2 (TX)	Half Hard	27	±10%	± 0.06mm	±0.11mm
54	2.0 (TY)	Hard	55	±10%	± 0.06mm	±0.07mm
66.7	1.2 (TX)	Hard	26	±15%	± 0.07mm	±0.10mm
66.7	2.0 (TY)	Hard	45	±15%	± 0.07mm	±0.10mm
76.1	1.5 (TX)	Hard	29	±15%	± 0.07mm	±0.10mm
76.1	2.0 (TY)	Hard	39	±15%	± 0.07mm	±0.10mm
108	1.5 (TX)	Hard	20	±15%	± 0.07mm	±0.20mm
108	2.5 (TY)	Hard	34	±15%	± 0.07mm	±0.20mm
133	1.5 (TX)	Hard	16	±15%	± 0.20mm	±0.70mm
159	2.0 (TX)	Hard	18	±15%	± 0.20mm	±0.70mm
219	3.0 (TX)	Hard	20	±15%	± 0.60mm	±1.50mm

Working pressures are to BS  
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