Plumbing Copper Tube - BS EN 1057 Table X



All Brymec supplied Plumbing Copper Tubes are BS EN 1057 Table X manufactured in straight lengths. Available as standard in 3m lengths with other lengths also available by request. Standard diameters range from 15mm to 108mm and 133mm, 159mm and 219mm for large commercial projects.

We carry a large stockholding of all standard copper tube to complement the ready availability of our Press Fit, Solder Ring and End Feed Copper Fittings ranges.

Applications

- Potable Water
- Heating
- Cooling
- Gas
- Refrigeration
- Solar Heating
- Medical Gas
- Condensate Drainage

Product Codes and Dimensions

STOCK NO	OD (mm)	Wall (mm)	Temper Hardness
30000	15	0.7	R250
30001	22	0.9	R250
30002	28	0.9	R250
33020	35	1.2	R250
33021	42	1.2	R250
33022	54	1.2	R290
30006	67	1.2	R290
30007	76	1.5	R290
30009	108	1.5	R290
30010	133	1.5	R290
30011	159	2.0	R290

Tube Markings

Tubes 15mm to 54mm have the following details stamped on them;

- Tube Size
- BS Kitemark
- EN1057
- Manufacturer
- Production Date Year/Quarter
- 67mm and above are stamped at both ends of the tube



Chemical Composition

Tubes 15mm to 54mm have the following details stamped on them;

- Cu-DHP
- copper 99.90 %
- phosphorous 0.015–0.040 %

Physical Properties

Property	Value
Density kg/dm3	8.94
Melting point °C	1 083
Coefficent of thermal expansion 25–300 °C	1.7 x 10-6 /K
Specific heat (thermal capacity) J/kg K	385
Thermal conductivity W/Km	295

Mechanical Properties

Hard	Hard	Half-hard
Tensile strength R_m N/mm²	min. 290	min. 250
Elongation A %	min. 3	min. 20
Proof stress $R_{p0.2}$N/mm²	min. 250	min. 150
Hardness (HV)	avg. 125	avg. 85
Hardness (HB)	avg. 125	avg. 75

Standards

Plumbing installation tubes are manufactured from phosphorus-deoxidised copper (Cu-DHP) according to the following standards:

- **EN 1057**, "Seamless, round copper tubes for water and gas in sanitary and heating applications".
- **EN 12735-1** "Seamless, round copper tubes for air conditioning and refrigeration. Part 1: Tubes for piping systems".
- **EN 13348** "Seamless, round copper tubes for medical gases or vacuum"