



HOLLY

**Copper Tube to
European Standard
BS EN 1057**



- Inspected, Tested and Marked in full accordance to BS EN 1057 standard.
- Assessed and accredited with PSB certification.
- Available in both half-hard and hard drawn tempers.
- Manufactured from phosphorus deoxidised copper (Cu-DHP).
- Supplier in diameters of 15mm to 159mm in a variety of wall thicknesses to meet the necessary Type X or Type Y tables.
- Available in lengths of 5.8 metres for convenience in shipment packing.
- Suitable for joining by means of either compression or capillary fitting to BS 864:Part 2, and or silver brazing.

CHEMICAL COMPOSITION

All tubing is manufactured from phosphorus deoxidised copper designated as either Cu-DHP or CW024A

Element	% Minimum	% Maximum
Copper ¹	99.90	-
Phosphorus	0.015	0.040
		¹ including Silver

HOLLY Copper Tube-Type X

NOMINAL DIAMETER (mm)	NOMINAL THICKNESS (mm)	MAXIMUM WORKING PRESSURE [†]		
		ANNEALED	HALF HARD	HARD
(Kpa)				
15	0.7	4500	5800	7100
22	0.9	3900	5100	6200
28	0.9	3100	4000	4800
35	1.2	3300	4200	5100
42	1.2	2700	3500	4300
54	1.2	2100	2700	3300
66.7	1.2	1700	2000	2700
76.1	1.5	1800	2400	2900
108	1.5	1300	1700	2000
133	1.5	1000	1400	1700
159	2.0	1200	1500	1800

Suitable for use in hot and cold water supply systems, sanitary drainage and a wide variety of plumbing, building and engineering work, EN1057-Type X is particularly suitable for bending. Hand and machine benders equipped with the correct size of guides and formers, will produce consistent quality bends.

[†] Based on individual tempers for temperatures up to 65°C. Annealed values apply when tubes are softened during jointing or fabrication.

Note: Tables above show sizes covered by EN 1057. However, not all of the sizes and tempers are produced due to market demands and cost competitiveness. Sizes other than those listed above may be available upon request.

MECHANICAL PROPERTIES

Mechanical properties and applicable tube sizes are given below.

Temper	EN 1173 Designation	R250	R290
	Common Term	Half Hard	Hard
Nominal Outside Diameter (mm)	Min.	15	35
	Max.	28	159
Minimum Tensile Strength Mpa		250	290
Minimum Elongation %		30	3
Hardness Hw/5 Indicative		75 to 100	100 min

HOLLY Copper Tube-Type Y

NOMINAL DIAMETER (mm)	NOMINAL THICKNESS (mm)	MAXIMUM WORKING PRESSURE [†]		
		ANNEALED	HALF HARD	HARD
(Kpa)				
15	1.0	6700	8700	10400
22	1.2	5300	6900	8400
28	1.2	4200	5500	6500
35	1.5	4100	5400	6500
42	1.5	3400	4500	5400
54	2.0	3600	4700	5600
66.7	2.0	2800	3700	4500
76.1	2.0	2500	3300	3900
108	2.5	2200	2900	3400

Suitable for use in underground works, EN 1057 - Type Y is frequently specified by government agencies, for heavy duty requirements. These include hot and cold water supply, gas reticulation, sanitary plumbing, heating and general engineering.