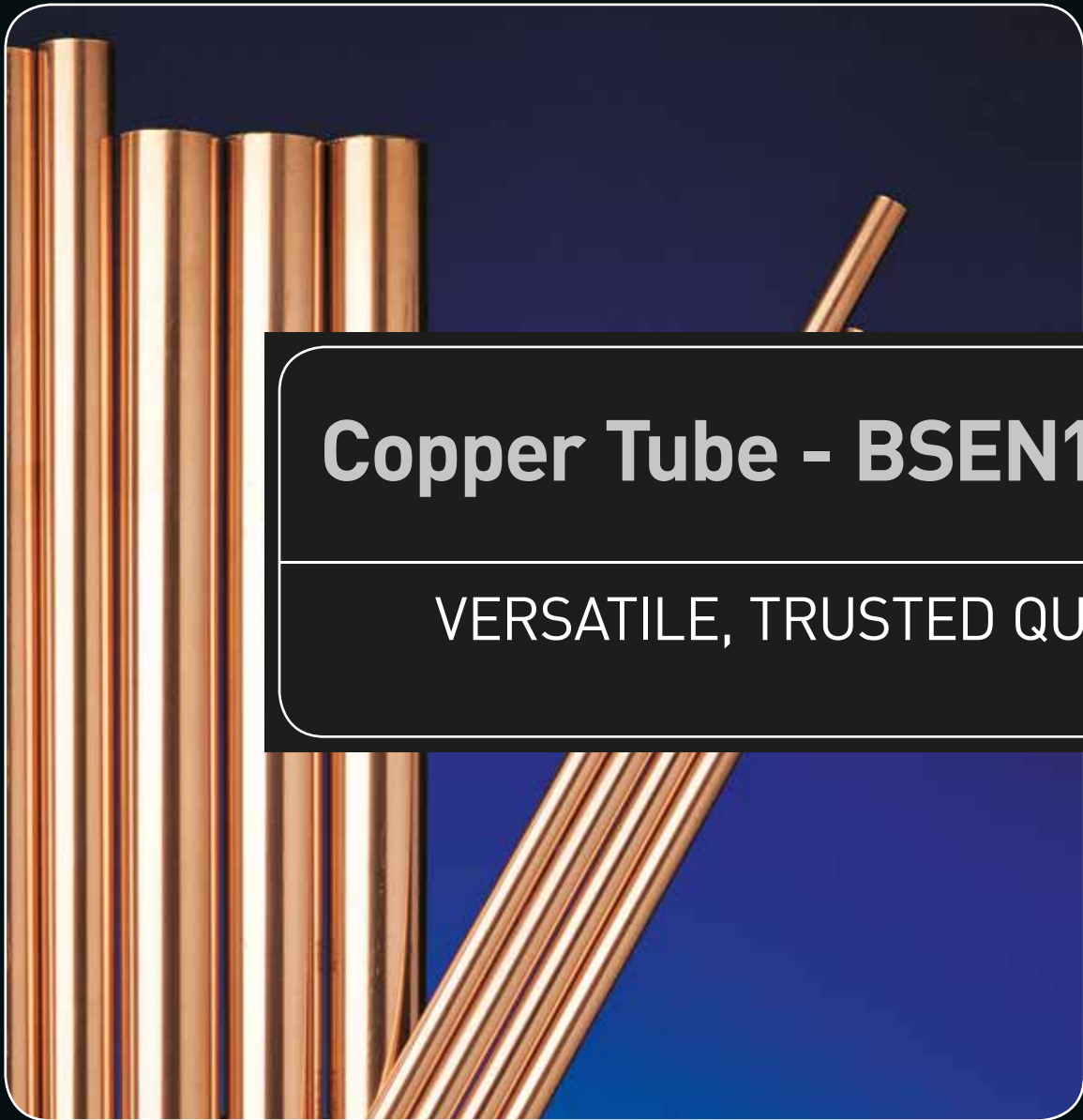




Crane Copper Tube



Copper Tube - BSEN1057

VERSATILE, TRUSTED QUALITY

COPPER TUBE → PLUMBING → GAS FITTING → DRAINAGE



Crane copper tube is manufactured to BSEN1057 standards using the highest grade raw materials and modern extruding and drawing technology to provide superior products for water, gas and waste in domestic, commercial and industrial applications.



Crane Copper Tube – BSEN1057

- **Quality Certified:** Crane copper tube is certified to comply with BSEN1057 - Seamless, round copper tubes for water and gas in sanitary and heating applications.
- **Internal Surface Quality:** Crane Copper Tube uses special manufacturing processes to provide enhanced internal bore characteristics that offer improved corrosion resistance and levels of carbon residue well below the values set by the Standard.
- **Multi Applications:** Crane copper tube has great versatility for multiple uses including hot and cold water, above and below ground services, gas reticulation, sanitary and drainage, heating and general plumbing applications.
- **Pre-insulated Tube:** Crane copper tube also manufactures 'Polylag', a pre-insulated tube which provides increased thermal insulation, reduces noise transmission and better condensation control.
- **Inherent Strength:** Copper tube has inherent strength, providing good resistance to external damage, puncture, abrasion, vibration bumps, and has a wide operating range for pressure and vacuum.
- **Impervious:** Copper tube is impervious to oxygen, insecticide, solvents and toxins.
- **Non-Flammable:** Copper tube is non-flammable and does not emit toxic fumes during fire.
- **Full Flow Joints:** Copper tube jointing does not reduce the bore of the tube, therefore providing high flow performance.
- **Low Friction Loss:** Copper tube provides high flow rates with minimal external dimensions.
- **U.V. Resistant:** Copper tube does not degrade from direct sunlight or become brittle with age.
- **Resists Rodent Attack:** Copper tube is not prone to damage due to rodent attack.
- **Standard Industry Sizes:** Copper tube is made to industry standard sizes not a unique brand size.
- **Stability:** Copper tube does not creep with age and has 7 to 15 times less lineal expansion than other materials with heat, and continues to perform at high temperatures.
- **Healthier & Non-tainting:** Copper tube does not adversely affect the taste of water, and *reduces the number of harmful micro-organisms in water.
*Study conducted by INCRA under project N°348 – 1984 using water contaminated with coliforms.
- **Proven Track Record:** Crane copper tube is part of a superior system with a proven track record.
- **Add Value For Life:** Copper tube adds value and is recognised as the superior plumbing material.
- **Recyclable:** Copper tube is a valuable recyclable material.

BSEN1057 TYPE X COPPER TUBE

Crane Item Number	Outside Diameter (mm)	Wall Thickness (mm)	Nominal Weight (kg/Length)	Form	Temper	Safe working pressure (Bar) at up to 65°C
50200134	15	0.7	1.63	5.8m Straight	½H (R250)	58.7
50200140	22	0.9	3.09	5.8m Straight	½H (R250)	51.2
50200144	28	0.9	3.97	5.8m Straight	½H (R250)	39.9
50200269	35	1.2	6.61	5.8m Straight	H (R290)	51.5
50200273	42	1.2	7.97	5.8m Straight	H (R290)	42.6
50200277	54	1.2	10.32	5.8m Straight	H (R290)	33.0
50200280	67	1.2	12.86	5.8m Straight	H (R290)	26.6
50200283	76	1.5	18.20	5.8m Straight	H (R290)	29.2
50200286	108	1.5	26.02	5.8m Straight	H (R290)	20.4
50200288	133	1.5	32.13	5.8m Straight	H (R290)	16.5
50200289	159	2.0	51.14	5.8m Straight	H (R290)	18.5

BSEN1057 TYPE Y COPPER TUBE

Crane Item Number	Outside Diameter (mm)	Wall Thickness (mm)	Nominal Weight (kg/Length)	Form	Temper	Safe working pressure (Bar) at up to 65°C
50200137	15	1.0	2.28	5.8m Straight	½H (R250)	85.7
50200143	22	1.2	4.07	5.8m Straight	½H (R250)	69.2
50200147	28	1.2	5.24	5.8m Straight	½H (R250)	53.7
50200272	35	1.5	8.18	5.8m Straight	H (R290)	64.9
50200276	42	1.5	9.89	5.8m Straight	H (R290)	53.7
50200279	54	2.0	16.94	5.8m Straight	H (R290)	55.8
50200282	67	2.0	21.17	5.8m Straight	H (R290)	44.8
50200285	76	2.0	24.10	5.8m Straight	H (R290)	39.1
50200287	108	2.5	42.96	5.8m Straight	H (R290)	34.4

1 Bar = 0.1N/mm² = 100kPa.

Quality, reliability, and performance



Water → Gas → Waste

BSEN1057 TYPE X – POLYLAG

Crane Item Number	Outside Diameter (mm)	Wall Thickness (mm)	Nominal Weight (kg/Length)	Form	Temper	Safe working pressure (Bar) at up to 65°C
50200135	15	0.7	1.63	5.8m Straight	½H (R250)	58.7
50200141	22	0.9	3.09	5.8m Straight	½H (R250)	51.2
50200145	28	0.9	3.97	5.8m Straight	½H (R250)	39.9
50200270	35	1.2	6.61	5.8m Straight	H (R290)	51.5
50200274	42	1.2	7.97	5.8m Straight	H (R290)	42.6
50200278	54	1.2	10.32	5.8m Straight	H (R290)	33.0
50200281	67	1.2	12.86	5.8m Straight	H (R290)	26.4
50200284	76	1.5	18.20	5.8m Straight	H (R290)	29.2

BSEN1057 TYPE X – POLYLAG PREMIUM

Crane Item Number	Outside Diameter (mm)	Wall Thickness (mm)	Nominal Weight (kg/Length)	Form	Temper	Safe working pressure (Bar) at up to 65°C
50200136	15	0.7	1.63	5.8m Straight	½H (R250)	58.7
50200142	22	0.9	3.09	5.8m Straight	½H (R250)	51.2
50200146	28	0.9	3.97	5.8m Straight	½H (R250)	39.9
50200271	35	1.2	6.61	5.8m Straight	H (R290)	51.5
50200275	42	1.2	7.97	5.8m Straight	H (R290)	42.6

BSEN1057 TYPE Y – POLYLAG


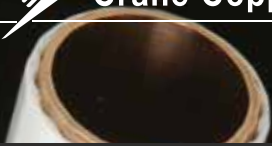
Crane Item Number	Outside Diameter (mm)	Wall Thickness (mm)	Nominal Weight (kg/Length)	Form	Temper	Safe working pressure (Bar) at up to 65°C
50200138	15	1.0	2.28	5.8m Straight	½H (R250)	85.7
50200326	22	1.2	4.07	5.8m Straight	½H (R250)	69.2
50200148	28	1.2	5.24	5.8m Straight	½H (R250)	53.7

BSEN1057 TYPE Y – POLYLAG PREMIUM

Crane Item Number	Outside Diameter (mm)	Wall Thickness (mm)	Nominal Weight (kg/Length)	Form	Temper	Safe working pressure (Bar) at up to 65°C
50200139	15	1.0	2.28	5.8m Straight	½H (R250)	85.7

1 Bar = 0.1N/mm² = 100kPa.





Crane Copper Tube Polybag is manufactured with a plastic sleeve over quality BSEN1057 Crane copper tube. This provides the benefits of fast installation plus improved thermal insulation, reduced noise transmission and condensation, and protection from corrosion.



Crane Copper Tube – Polybag

- **Polybag Plastic Sleeved Tube:** Crane Copper Tube Polybag is manufactured with non-castellated plastic lagging. This product is particularly useful in aggressive environments and below ground applications.
- **Polybag Premium:** Crane Copper Tube Polybag Premium has a castellated plastic sleeve which forms air pockets around the tube, creating an effective thermal barrier (since air is a poor conductor of heat), and improving thermal insulation properties.
- **Reduced Noise & Condensation:** The castellated plastic sleeve significantly reduces noise transmission and condensation.
- **Ideal for Laying in Concrete:** The plastic sleeve around Polybag tube protects the tube from corrosive environments and abrasion.
- **Fast & Cost Effective:** Ready to install – reduces costs compared to time consuming hand lagging.

Quality, reliability, and performance



Physical Properties of Copper Tube

Composition	Alloy C12200 Copper= 99.90%min; Phosphorus=0.015-0.040%
Melting point	1083°C
Density	8.94 x 10 ³ kg/m ³
Thermal Expansion	0.177mm/10°C.m
Modulus of Elasticity	17,000 MPa

Tube Temper	Nominal Outside Diameter	MPa*	Minimum Elongation	Hardness‡
R250 Half Hard	15 to 28mm	250	30%‡	75 to 100
R290 Hard	35 to 159mm	290	3%	100 min.

‡ Elongation for half hard tubes depends on the ratio of outside diameter to wall thickness

* MPa = Minimum tensile strength

‡ Hardness HV/5 indicative

BSEN1057 Copper Tube

Ink Marking

The tube is also identified with ink marking along its length stating the Brand Logo and Name, Conforming Standard, Size, Type, Year and Qtr.

SAMPLE OF INK BRANDING REQUIREMENT FOR BSEN1057 TX BARE TUBE



SAMPLE OF INK BRANDING REQUIREMENT FOR BSEN1057 TX POLYLAG TUBE



Information contained in this brochure is provided as a guide only. Crane Copper Tube does not warrant that the information is accurate or without error or omissions. Crane Copper reserves the right to correct any errors or misprints.

Crane Copper Tube

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