

BLUE LABEL EN 1057

INTRODUCTION

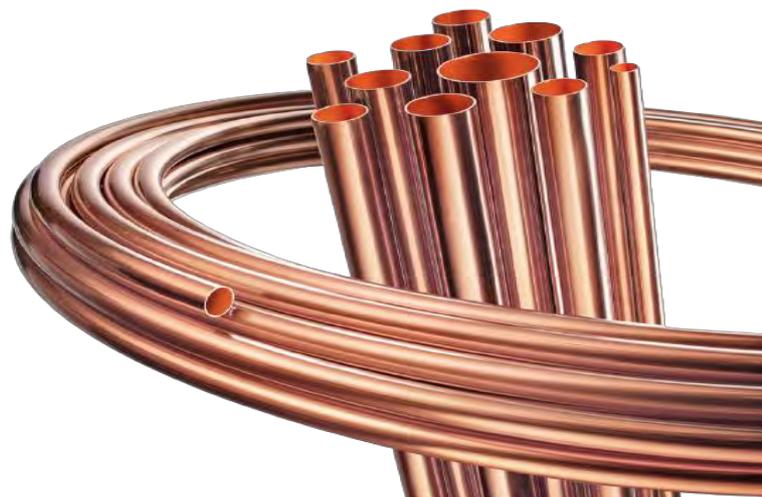
The British Standard EN 1057 : (brand name Blue Label), specifies the requirements for copper tubes annealed soft coils. The tube is manufactured from phosphorus deoxidised (non arsenical) copper to alloy CW024A. Tube complying to this table is intended for use with Microbore central heating systems and, when buried, should be plastic coated.

APPROVAL

Blue Label conforms to the requirements of the British Standards Institution and Mueller have earned the right to use the Kitemark as evidence of

compliance of this tube to the British Standard EN 1057 Blue Label, and have Registered

Firm Status to BS EN ISO 9001 : 2000 : FM 00452.



Nominal dimensions and max working pressure

Tolerance on outside diameter

Tolerance on wall thickness

| Nominal outside diameter Ø mm | Wall thickness mm | Max working pressure bar | Nominal outside diameter Ø mm | | Tolerance on nominal diameter (mm) | | Nominal outside diameter Ø mm | Tolerances wall thickness e ¹⁾ e < 1 mm % |
|-------------------------------|-------------------|--------------------------|-------------------------------|---------------------|------------------------------------|--|-------------------------------|--|
| | | | over | up to and including | Applicable to mean diameter | Applicable to any diameter ²⁾ | | |
| 6 | 0,6 | 90 | | | | | 6,8,10 | ± 10 |
| 8 | 0,6 | 66 | 6 ¹⁾ | 10 | all tempers | ±0,04 | | |
| 10 | 0,7 | 62 | | | | | | |

¹⁾ Including 6 mm
²⁾ Including deviation from circular form

¹⁾ Including deviation from concentricity
Note
Concentricity (uniformity of wall thickness) is controlled by tolerance on wall thickness.

Mechanical properties

| Material temper | | Nominal outside diameter Ø mm | | Tensile Strength Rm MPA | Elongation A % | Hardness (indicative) HV5 |
|-----------------|-------------|-------------------------------|------|-------------------------|----------------|---------------------------|
| EN 1173 | Common term | min. | max. | min | min | VPN |
| R220 | annealed | 6 | 10 | 220 | 40 | (40 - 70) |

Note 1: Hardness figures in parentheses are not requirements of this standard but are given for guidance purposes only.

Note 2: MPa is equivalent to 1N/mm²



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MARKING

Tube from 6mm to 10mm inclusive, is permanently die stamped «STREAMLINE GB EN 1057 Blue Label» and date of manufacture at intervals of not more than 600mm.

JOINTING

These tubes are suitable for connecting by means of capillary or compression fittings to BS EN1254, silver brazing, bronze or autogenous welding. Due to a degree of ovality from coiling, the tubes should be rerounded prior to jointing with a rerounding tool.

BENDING

Blue Label can be bent with ease on bending machines, or with bending springs, provided they are of the correct size.

Manufacturers of bending machines such as Hilmor, Tubela, Consort, etc, are able to supply hand held benders. Bending by spring is normally carried out with external springs and tight radii bends can be achieved.

Weights

| | 10 M Coil Kg/Coil | 20 M Coil Kg/Coil | 25 M Coil Kg/Coil | 50 M Coil Kg/Coil |
|----|----------------------|----------------------|----------------------|----------------------|
| 6 | 0,906 | 1,812 | 2,265 | 4,530 |
| 8 | 1,241 | 2,483 | 3,104 | 6,207 |
| 10 | 1,577 | 3,154 | 3,943 | 7,885 |

Based on theoretical weights

Lengths & packaging

| Lengths & Packaging Sizes mm | 6 | 8 * | 10 * |
|------------------------------|---|-----|------|
| 10M Coils | | • | • |
| 20M Coils | | • | • |
| 25M Coils | • | • | • |
| 50M Coils | | • | • |
| Other Coils Lengths | • | • | • |
| Plastic Sleeved | | • | • |
| SPECIAL FINISHES | | | |
| Protec Blue | • | • | • |
| Protec Green | • | • | • |
| Protec Yellow | • | • | • |
| Protec White | • | • | • |
| Protec 2000 White | • | • | • |
| Degreased | • | • | • |
| Degreased Oxygen | • | • | • |

*Coils of sizes 8mm and 10mm OD are supplied pre-packed in multiples of 200 metres per coil length only.

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