SMISOL® One

Versatile and professional

APPLICATIONS

- · Hot and cold drinking water.
- · Heating plants.

In compliance with applicable regulations.



with EU Regulation 305/2011 for construction products (CPR), SMISOL®One copper tubes, in line with EN 1057, are certified with the CE mark. A supplementary guarantee of compliance with prevailing regulation standards is assured with the achievement of UNI-IGQ Quality certification.

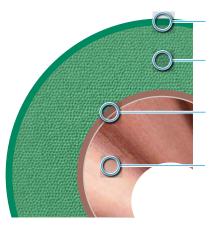


SHEATH CHARACTERISTICS

- Thermal conductivity: λ ≤ 0,038 W/mK at 40°C.
- Average sheath density: 33 kg/m³.
- Min. sheath thickness: 6 mm (9 mm for the 22 x 1 mm diameter) under continuous laser gauge control.
- Free from ammoniacal residues.
- Excellent resistance to external chemical agents.
- Reaction to fire classification: BLs1d0 (EN 13501-1).
- Devoid of CFCs and HCFCs (Reg. EEC/EU 2037/2000).

EXTERNAL PROTECTION

The insulating sheath is in closed cell PE foam conforming to Reg. CEE/EU 2037/2000 (devoid of CFCs and HCFCs) with a green polyethylene corrugated film outer surface. Reaction to fire classification: BLs1d0 (EN 13501-1).



Protective polyethylene film

Polyethylene insulating sheath compliant to Reg. CEE/UE/2037/2000)

Copper tube diameter manufactured under continuous laser gauge control

Internal surface with passivation treatment

TABLE OF STANDARD PRODUCT DIMENSIONS - COILS

dimensions Ed x Th	coil length min. guaranteed	min. sheath thickness	burst pressure	operating pressure ASTM	water content
(mm)	(m)	(mm)	(MPa)	(MPa)	(l/m)
10 x 1	50	6	44,88	11,22	0,050
12 x 1	50	6	37,40	9,35	0,079
14 x 1	50	6	32,06	8,01	0,113
15 x 1	50	6	29,92	7,48	0,133
16 x 1	50	6	28,05	7,01	0,154
18 x 1	50	6	24,93	6,23	0,201
22 x 1	25	9	20,40	5,10	0,314

Ed = External diameter Th = wall thickness Other dimensions compliant to EN 1057 are available on request.

INTERNAL PROTECTION

It has proven **bacteriostatic properties,** making it the ideal material for drinking water distribution, in order to prevent the growth of bacteria such as Legionella. SMISOL®One complies with D.M. 174/04 (O.J. 166 of 14/07/04), which defines the parameters to be met by materials in contact with drinking water. During manufacture, the tubes are subjected to a **patented treatment for passivation** and **stabilisation of the internal walls,** thus assuring absolute compliance with the potability parameters required by European legislation for transported drinking water (European Directive 2020/2184/EU). SMISOL®One copper tube has a carbon residue $C < 0.06 \text{ mg/dm}^2$, much lower than that required by EN 1057 which defines a carbon content limit of $C \le 0.20 \text{ mg/dm}^2$.

