

APPLICATIONS

- Distribution of liquid and gaseous fuels with particular reference to underground laying.

In compliance with applicable regulations.



This copper tube is manufactured according to standard EN 1057.

During production it is sheathed in a PVC full cross-section protective covering (without air channels) according to UNI 10823.

The properties of SMISOL® Gas in terms of melting point, fire and pressure resistance, gas impermeability and the absolute sealing performance of brazed and joints, become indispensable in the case of domestic distribution of gas fuel, where the utmost safety guarantees are mandatory and enforced by technical standards and by legal provisions.

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

EXTERNAL PROTECTION

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- Sheath material in special stabilised PVC resin.
- Full cross-section (continuous - no air channel) compliant to UNI 10823.
- Minimum sheath thickness: 1,5 mm (under continuous laser gauge control).
- Sheath manufactured from high-quality virgin granules.
- Excellent resistance to external chemical agents.
- Ink marking every meter.
- Electrical insulation resistance: $\geq 100 \text{ M}\Omega\text{m}^2$ (UNI 10823).

Tested and guaranteed stabilised polyvinyl resin sheath. The sheath protects the tube against damage from external agents such as building materials (eg. quick-setting cement) and damage caused by impact during the construction site transportation. It allows for **underground laying tube installation**, as indicated by UNI 10823: "the coating is obtained by extrusion, in a seamless and continuous manner, externally and internally smooth, with uniform nominal thickness, adherent to the external wall of the copper tube over its entire surface to ensure the absence of residual air pockets and prevent the coating from slippage".

It is tested in line in order to ensure the required electrical Insulation resistance that, as per UNI 10823, must be equal to or greater than $100 \text{ M}\Omega\text{m}^2$.

Moreover, it meets the requirements of UNI 7129 regarding the omission of the dielectric joint installation, provided for underground sections not exceeding 3 m length.

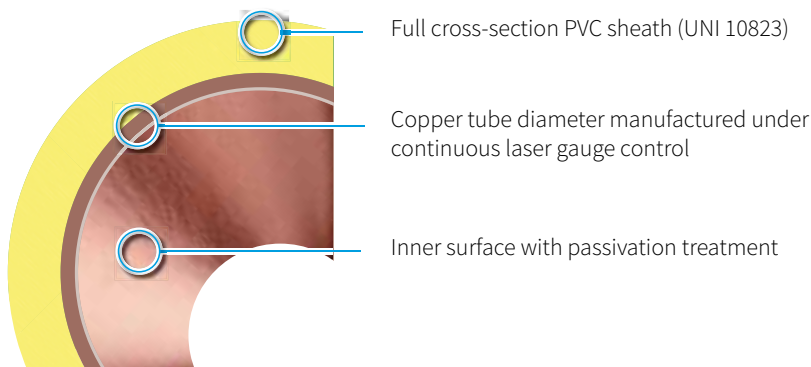


TABLE OF STANDARD PRODUCT DIMENSIONS - COILS

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)
12 x 1	50	1,5	37,40	9,35	0,079
14 x 1	50	1,5	32,06	8,01	0,113
15 x 1	50	1,5	29,92	7,48	0,133
16 x 1	50	1,5	28,05	7,01	0,154
18 x 1	50	1,5	24,93	6,23	0,201
22 x 1	25	1,5	20,40	5,10	0,314

Ed = External diameter Th = wall thickness

INTERNAL PROTECTION

During production, the tubes are subjected to a **patented passivation treatment and stabilisation of the inner wall.**

SMISOL® Gas 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 $C \leq 0.20 \text{ mg/dm}^2$.

