

SILMET PVC GAS, a copper tube pre-insulated with PVC, produced with cutting-edge machinery, complies with all the international reference standards, is manufactured according to **D.P.R. 1095/68 and D.M. n. 174 of 06.04.2004 of Italian Department of Health - ref. European Council Directive n. 98/83/EC** as far as the transport of drinking water is concerned and is suitable for building plants for transporting gas (**UNI CIG 7129**).

It is coated with a yellow polyvinyl chloride (PVC) sheath that makes it easy to recognise during installation; it is non-toxic, odourless and free from chlorofluorocarbons (CFC).

The characteristics of our coating in PVC GAS make the tube resistant to abrasions and corrosion and the particular internal structure allows the correct expansion of the copper tube without jeopardising the condition of the coating.

The PVC coating is odourless, non-toxic and is made without the use of CFC. It is suitable to be used in plants with operating temperatures ranging from -80°C to +100°C.

The PVC GAS copper tube is supplied in 50-meter coils (25 meters with Ø 22 mm) marked at intervals also indicating the relative meters.

The main characteristics of the PVC GAS sheath are excellent plasticity, mechanical resistance to abrasions and corrosion, all ensuring that the tube lasts for a long time. Perfect adherence to the tube without insulation: the coating complies with **UNI 10823** "Coated copper tubes for gas application in underground zones".



The copper tube EN 1057 is marked **CE** as required by 89/106/EEC EU Construction Products Directive.

- THICKNESS OF THE INSULATING SHEATH : 2 mm
- USAGE TEMPERATURES : -80 °C +100 °C
- THERMAL CONDUCTIVITY : 0,0397 W · m⁻¹ · K⁻¹
- RESISTANCE TO FIRE : self-extinguishing
- WRAPPING : coils individually wrapped with transparent film for further protection

CHARACTERISTICS OF THE ESENCOR COPPER TUBE

Alloy	Cu-DHP CW024A (Cu = 99.90% min. – P = 0.015 ÷ 0.040%)
Physical state	Annealed
Unit tensile strength	220 MPa/mm ² min.
Percentage elongation	40% min.
Internal cleanliness	C max. 0,20 mg/dm ²
Dimensions and tolerances ¹	in compliance with standard EN 1057
Internal surface roughness	RA 1/10 micron
Linear thermal expansion coefficient	0.00168 mm/m °C
Thermal conductivity at 20 °C	364 W/m k

¹ Products with marking, dimensional tolerances and various lengths can be prepared on specific Customer request.

PVC GAS COPPER TUBE **silmet** S.P.A.

TABLE OF THE DIMENSIONS OF THE SILMET PVC GAS COPPER TUBE

dimensions without insulation mm	diameter with insulation mm	thickness of insulating sheath mm	bursting pressure MPa	operating pressure MPa	coil length m	water content per meter l/m
10 X 1	14	2	44,88	11,22	50	0,0503
12 X 1	16	2	37,40	9,35	50	0,0785
14 X 1	18	2	32,06	8,01	50	0,1131
15 X 1	19	2	29,92	7,48	50	0,1327
16 X 1	20	2	28,05	7,01	50	0,1539
18 X 1	22	2	24,93	6,23	50	0,2011
22 X 1,5	26	2	30,60	7,65	25	0,2835

PALLETISATION OF SILMET PVC GAS COATED COILS

measurement Ø x thickness mm	coil length m	coils per pallet n	metres per pallet m	approx. gross pallet weight kg	dimensions of pack cm
10 X 1	50	30	1.500	425	h 220 X Ø 80
12 X 1	50	30	1.500	512	h 220 X Ø 80
14 X 1	50	27	1.350	545	h 220 X Ø 80
15 X 1	50	26	1.300	585	h 220 X Ø 80
16 X 1	50	25	1.250	600	h 220 X Ø 80
18 X 1	50	23	1.150	614	h 220 X Ø 90
22 x 1,5	25	26	650	460	h 220 X Ø 90

The packs cannot be stacked.

A maximum of 2 packs with a large diameter (**h 220 x Ø 90 cm**) and available for other coated products, are loaded onto the pallet side-by-side together with a third smaller pallet.

The others can be loaded side-by-side in threes.

PVC GAS copper tube is suitable for the following fields of use and with the following references:

Distribution of liquid and gaseous fuels by:

UNI CIG 7129

Gas systems for household and similar powered by the distribution network - Design and installation.