

# SYSTEM GAS

THE IDEAL COPPER TUBE FOR GAS DISTRIBUTION  
IN CIVIL CONSTRUCTION.

## SYSTEM GAS COPPER TUBE

**SYSTEM GAS**, Tube in Cu DHP 99.9% copper - EN 1057, insulated with sheath in closed cell, expanded polyethylene, produced with cutting-edge machinery and explicitly made for building gas transport plants in civil residential buildings and according to the provisions under the UNI CIG 7129 standard for chased in pipes.

The internal air chamber between the copper tube and the coating itself allows gas to exit the building if there are any leaks from the feeding plant.

Silmet **SYSTEM GAS** is the optimal solution for building chased in gas transport systems.

The core of the **SILMET SYSTEM GAS** is the **ESENCOR** copper tube, providing excellent protection against corrosion, and is the result of scientific studies and tests that guarantee a considerably lower level of residual carbon than that required by manufacturing standards.

The Silmet **SYSTEM GAS** copper tube is supplied in 50-metre coils (25 metres with Ø 22 mm) marked at intervals also indicating the relative metres.

The copper tube EN 1057 is marked **CE** as required by EU 305/2011 EU Construction Products Regulation (CPR).

INSULATION DENSITY	:	130 kg/m <sup>3</sup>
THICKNESS OF THE INSULATING SHEATH	:	6 mm
USAGE TEMPERATURES	:	-30 °C +95 °C
THERMAL CONDUCTIVITY	:	0,0397 W · m <sup>-1</sup> · K <sup>-1</sup>
RESISTANCE TO FIRE	:	Class 1 (self-extinguishing)
WRAPPING	:	coils individually wrapped with transparent film to give 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 <sup>2</sup> min.
Percentage elongation	40% min.
Internal cleanliness	C max. 0,20 mg/dm <sup>2</sup>
Dimensions and tolerances	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



**TABLE OF THE DIMENSIONS OF THE SILMET SYSTEM 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
12 X 1	24	6	37,4	9,35	50	0,0785
14 X 1	26	6	32,06	8,01	50	0,1131
15 X 1	27	6	29,92	7,48	50	0,1327
16 X 1	28	6	28,05	7,01	50	0,1539
18 X 1	30	6	24,93	6,23	50	0,2011
22 X 1,5	34	6	30,6	7,65	25	0,2835

**PALLETISATION OF SILMET SYSTEM GAS COATED COILS**

measurement Ø x thickness mm	coil length m	coils per pallet n	meters per pallet m	approx. gross pallet weight kg	dimensions of pack cm
12 X 1	50	17	850	335	h 220 X Ø 80
14 X 1	50	16	800	363	h 220 X Ø 80
15 X 1	50	15	750	383	h 220 X Ø 80
16 X 1	50	15	750	394	h 220 X Ø 80
18 X 1	50	13	650	375	h 220 X Ø 90
22 X 1,5	25	18	450	456	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.

**SYSTEM 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 the household and similar powered by the distribution network - Design and installation.