

COPPER/PE ATLAS TEN TUBE **silmet** S.P.A.

ATLAS TEN, a copper tube pre-insulated with low-density closed cell expanded polyethylene, in compliance with **Law 10/91**, former Law 373, regarding the design, installation, running and maintenance of thermal systems for buildings, for the purposes of energy consumption control.

Ideal for water distribution systems, classified in fire resistance **Class 1**, the coating has been designed in the smallest details to respond excellently to the increasingly more qualified requirements in the design of modern plants.

The protective film is corrugated to provide greater adherence to cement mortars and has an excellent resistance to external agents.

The coating is odourless, non-toxic and is made without the use of CFC. It is suitable to be used in plants with operating temperatures up to +95 °C in continuous.

The ATLAS TEN copper tube is supplied in 50-meter coils marked at intervals also indicating the relative meters.

The core of the product is the ATLAS copper composite tube, providing excellent protection against corrosion, the result of scientific studies and tests that guarantee a considerably lower level of residual carbon than is required by manufacturing standards



INSULATION DENSITY	: 30 kg/m ³
THICKNESS OF THE INSULATING SHEATH	: from 6 to 9 mm
OPERATING TEMPERATURES	: up to +95 °C in continuous
THERMAL CONDUCTIBILITY	: 0,0397 W · m ⁻¹ · K ⁻¹
RESISTANCE TO FIRE	: Class 1 (self-extinguishing)
WRAPPING	: coils individually wrapped with transparent film to give further protection

CHARACTERISTICS OF THE ATLAS TUBE

Alloy of internal material in contact with fluids	Cu-DHP CW024A (Cu = 99,90% min. – P = 0,015 ÷ 0,040%)
Coating	Polyethylene
Internal cleanliness	C max. 0,20 mg/dm ² (rif. EN 1057)
Dimensions and tolerances	according to UNI 11342 standard
Internal surface roughness	RA 1/10 di micron
Linear thermal expansion coefficient	0,00168 mm/m °C
Thermal conductivity at 20 °C	0,36 W m/k

TABLE OF DIMENSIONS OF THE SILMET ATLAS TEN TUBE

dimensions Ø x thickness mm	copper thickness mm	operating pressure bar	coil length m	water content per meter l/m
14 X 2	0,30	33	50	0,0785
16 X 2	0,35	32	50	0,1131
20 X 2	0,50	34	50	0,2011