

Tubolit®

DURABLE, COST-EFFECTIVE DEFENSE

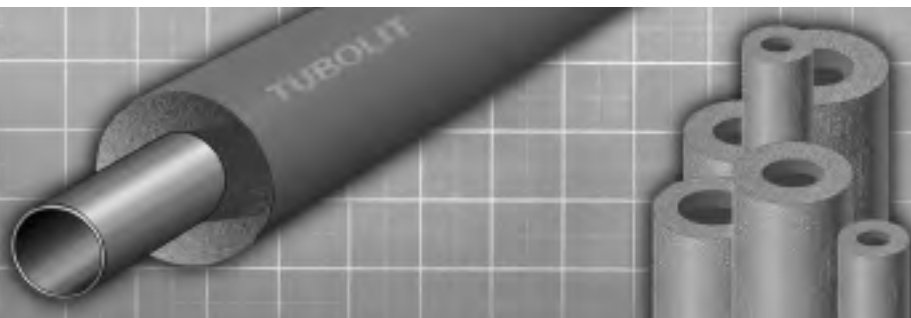
Semi-Slit
Polyethylene
insulation

Saves
energy

Reduces
noise

Backed by
the makers of
Armaflex®

Closed-Cell foam



Description

Tubolit is a semi-slit 25/50-rated flexible closed-cell black polyolefin/polyethylene pipe insulation for saving energy while reducing noise. Particularly effective for cost-efficient thermal insulation of domestic heating and plumbing lines. It is available in the most frequently specified pipe sizes and thicknesses. Tubolit is expanded without the use of CFCs, HFCs or HCFCs. It is also formaldehyde free, low VOCs, fiber free, dust free and resists mold and mildew.

Uses

Tubolit is recommended for use on lines operating from -200°F (-129°C) to 200°F (93°C). It effectively reduces heat loss on hot water plumbing and heat gain on cold-water plumbing systems.

Installation

Tubolit is easy to sleeve over new pipework, or cut longitudinally to snap over existing pipework. Installs with simple hand tools and Armaflex 520, 520 Black Adhesive or, where a low V.O.C. adhesive is required, Armaflex 520 BLV Adhesive. 520 Adhesives are contact adhesives; therefore, in all cases, both surfaces to be joined are coated with adhesive. Tubolit must be protected from direct sunlight exposure and weather elements and must be protected when installed outdoors with weather-resistant jacketing or Armaflex WB Finish.

Specification Compliance

- ASTM C 1427, Type I
- MEA 6-02-M

Physical Data

Average Physical Properties^①

Test Method

Average Physical Properties ^①		Test Method
Thermal conductivity, Btu • in/h • ft ² • °F (W/mK) 75°F (24°C) mean temp	0.25 (0.036)	ASTM C 177 or C 518
Water vapor permeability, perm-inch [Kg/(s•m•Pa)]	0.0 (0.0 x 10 ⁻¹³)	ASTM E 96 Procedure A
Water absorption by volume	0.2%	ASTM C 209
Flame spread and smoke developed index through 1" thickness ^②	25/50	ASTM E 84
Mold growth Fungi resistance Bacterial resistance	UL181 ASTM G21/C1338 ASTM G22	Meets requirements Meets requirements Meets requirements
Density, lbs/ft ³ (Kg/m ³) ^③	2 (32)	ASTM D 1622
Ozone resistance	GOOD	
Upper use limit ^④	200° F (93°C)	
Lower use limit ^④	-200° F (-129°C)	
Sizes		
Wall thickness (nominal)	3/8", 1/2", 3/4" and 1" (10, 13, 19, and 25mm)	
Inside diameter, tubular	3/8" to 4" IPS ID (10mm to 114mm ID)	
Length of sections, tubular	6' (1.83m)	

Notes

- ① Average values are not to be used for writing material specifications. Contact Armacell for specification ranges.
- ② Cellular plastics and thermoplastics, such as polyethylene/ polyolefin insulation, that may drip, melt, delaminate or draw away from the fire, present unique problems and require careful interpretation of the test results.
- ③ For reference only.
- ④ See Armacell Technical Info-Service #010.

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For any updates on this document, please refer to our website.



Armaflex 520, 520 Black & 520 BLV Adhesives
Air-drying contact adhesives that are excellent for joining Tubolit seams and butt joints.