

STRENGTH IN FLEXIBILITY

Tubolit W LS

White PE pipe insulation in continuous coil lengths, with a durable outer covering that resists abrasion and tears.

- // Durable, white coating with zero permeability
- // Meets ASTM E-84 25/50 Rating for plenums
- // Closed-cell structure resists mold and mildew
- // UV retardant added to minimize ultraviolet degradation
- // R Values of R3 or R4 for all pipe sizes

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Tubolit[®]

Tubolit W LS TECHNICAL PROPERTIES

Description:

Tubolit W LS pipe insulation is a white, flexible Polyethylene (PE) thermal insulation with a solid, outer PE coating that makes it UV retardant and abrasion resistant. Tubolit W LS has a closed cell structure that makes it an excellent water and water vapor retarder. Since it has a 25/50 rating according to ASTM E84, Tubolit W LS can be installed anywhere in a home or building including plenum spaces.

Uses:

For line set, AC refrigerant and plumbing lines in commercial and residential buildings

Outdoor Installation:

Tubolit W LS meets the requirements of the International Energy Conservation Code (IECC) for protection of insulation installed outdoors. Its durable, outer covering resists damage due to sunlight and lawn maintenance activities including line trimmers.¹

Installation:

Tubolit W LS can be slit easily with a sharp, non-serrated knife and installed over a pipe. Longitudinal and butt joints should be sealed properly with Armaflex 520 adhesive.

Specification / Code Compliance:

ASTM C1427	2015 IECC: Section R403.4.1
2012 IECC: Section R403.3.1	2015 IECC: Section C403.2.10
2012 IECC: Section C403.2.8	ASTM E84 25/50

Typical Properties

Property	Value	Test Method:
Thermal Conductivity: Btu • in/h • ft ² • °F (W/mK)		
75°F Mean Temperature (24°C)	0.27 (0.039)	ASTM C 177 or C 518
Water Vapor permeability: Perm-in (Kg/s-m-Pa)	0.00 (0.0 x 10 ⁻¹³)	ASTM E 96 Procedure A
Water Absorption, % by volume	0.2	ASTM C 1763
Flame Spread and Smoke Developed Index through 1" wall thickness:	25/50 rated	ASTM E 84
Ozone Resistance	Good	
UV Weather Resistance	Good: no deterioration ¹	ASTM G154, Cycle 1 for 1000 hrs
Upper Use Limit:	180°F (82°C)	
Lower Use Limit²:	-200°F (-128°C)	

1. Tubolit WLS meets the UV resistance requirements of ASTM C1775 which describes requirements for insulation protective jacketing used outdoors. For maximum longevity outdoors, Armacell recommends coating Tubolit W LS with 2 coats of WB Finish.
2. At -100 °F (-73 °C), the insulation becomes hard and brittle. This hardening characteristic does not affect thermal efficiency or water vapor permeability.

R-Values

1/2" Wall	R3
3/4" Wall	R4

Sizes

Nominal Wall Thickness	Inside Diameter	Length
1/2" (13 mm)	1/4" ID to 1-1/8" ID (6 mm to 28 mm)	Continuous Coil
3/4" (19 mm)	1/4" ID to 1-1/8" ID (6 mm to 28 mm)	Continuous Coil

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. Armacell takes every precaution to ensure the accuracy of the data provided in this document and all statements, technical information and recommendations contained within are believed to be correct at the time of publication. By ordering/receiving product you accept the **Armacell General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these.

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For more information, please visit:
www.armacell.us
info.us@armacell.com

