

# Tubolit® W LS

White PE pipe insulation in continuous coil or six-foot lengths, with a durable outer covering that resists abrasion and tears



- Clean, white appearance
- Durable 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

 armacell®



## Tubolit W LS

### 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.

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

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)	6' lengths or continuous coil
3/4" (19 mm)	1/4" ID to 1-1/8" ID (6 mm to 28 mm)	6' lengths or continuous coil

### ARMACELL LLC

TEL: 800.866.5638

info.us@armacell.com

www.armacell.us

55 Vilcom Center Dr., Suite 200, Chapel Hill, NC 27514



Armacell provides this information as a technical service. To the extent the information is derived from sources other than Armacell, Armacell is substantially, if not wholly, relying upon the other source(s) to provide accurate information. Information provided as a result of Armacell's own technical analysis and testing is accurate to the extent of our knowledge and ability, as of date of printing, using effective standardized methods and procedures. Each user of these products, or information, should perform their own tests to determine the safety, fitness and suitability of the products, or combination of products, for any foreseeable purposes, applications and uses by the user and by any third party to which the user may convey the products. Since Armacell cannot control the end use of this product, Armacell does not guarantee that the user will obtain the same results as published in this document. The data and information are provided as a technical service and are subject to change without notice.