

# AP/Armaflex® White LapSeal™

## Tube Insulation with Reinforced Lap Seal

The original, fiber-free, flexible elastomeric pipe insulation with a labor-saving elastic foam lap seal for reliable protection against condensation, mold and energy loss in demanding grocery refrigeration applications.

Fiber Free



- Reinforced elastic lap seal won't buckle or lift for greater seam integrity
- Closed-cell structure provides excellent condensation and energy loss control. Built-in vapor barrier eliminates need for additional vapor retarder
- Microban® antimicrobial product protection inhibits the growth of mold and mildew in the insulation
- 25/50 rated for use in air plenums
- Fiber-free, formaldehyde-free, low VOC and non-particulating formulation protects indoor air quality

GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit [ul.com/gg](http://ul.com/gg).

armacell®



PROTECTION THAT LIVES ON  
 MICROBAN®

Microban antimicrobial product protection is limited to the product itself and is not designed to protect the users of these products from disease causing microorganisms, or as a substitute for normal cleaning and hygiene practices.\*

## Technical Data: AP Armaflex® White LapSeal™ Tube Insulation

### Description:

Off-white flexible closed-cell elastomeric thermal insulation in tubular form with a reinforced lap seal

### Applications:

Insulation for piping associated with HVAC, VRV and VRF systems, chillers, hot and cold water, refrigeration

### Specifications Compliance:

ASTM C 534, Type I —  
Tubular Grad 1  
ASTM E 84  
NFPA 255

UL 723  
NFPA 90A, 90B  
UL 181  
ASTM G21/C1338

ASTM G22  
ASTM D 1056, 2B1  
CAN/ULC S102<sup>1</sup>

### Approvals, Certifications, Compliances:

- 3rd party certified by FM Approvals through 1-1/2" wall thickness.
- GREENGUARD® Children & Schools Indoor Air Quality certified.
- Manufactured without CFCs, HFCs, HCFCs, PBDEs, or Formaldehyde.
- Made with EPA registered Microban® antimicrobial product protection.
- All Armacell facilities in North America are ISO 9001:2008 certified.

### Typical Properties

Specifications:	Values		Test Method:
	Through 1" Wall	1-1/2" Wall	
<b>Thermal Conductivity:</b> Btu • in./h • ft <sup>2</sup> • °F (W/mK)			
75°F Mean Temperature (24°C)	0.245 (0.0353)	0.28 (0.040)	ASTM C 177 or C 518
90°F Mean Temperature (32°C)	0.254 (0.0366)	0.286 (0.041)	
<b>Water Vapor Permeability:</b> Perm-in. [Kg/(s • m • Pa)]	0.05 (0.725 x 10 <sup>-13</sup> )	0.08 (1.16 x 10 <sup>-13</sup> )	ASTM E 96, Procedure A
<b>Flame Spread and Smoke Developed Index:</b>	25/50 rated	25/50 rated	ASTM E 84 CAN/ULC S102 <sup>1</sup>
<b>Water Absorption, % by Volume:</b>	0.2%	0.2%	ASTM C 209
<b>Mold Growth:</b>	Passed	Passed	UL181 ASTM G21/C1338 ASTM G22
<b>Fungi Resistance:</b>			
<b>Bacterial Resistance:</b>			
<b>Upper Use Limit:</b> <sup>2</sup>	220°F (105°C)	220°F (105°C)	ASTM C534
<b>Lower Use Limit:</b> <sup>3</sup>	-297°F (-183°C) <sup>4</sup>	-297°F (-183°C) <sup>4</sup>	ASTM C534
<b>Ozone Resistance:</b>	GOOD	GOOD	Ozone Chamber Test

### Sizes:

Wall Thickness (nominal)	1/2", 1", 1-1/2" (13mm, 25mm, 38mm)
Inside Diameter, Tubular	5/8" ID to 2-5/8" (15 to 67mm)
Length of Sections, Feet, Tubular	6' (1.8m)

### Outdoor Use

Painting with WB Finish or other protective jacketing is required to prevent damage to the insulation in exterior applications and to comply with the insulation protection sections of the International Energy Conservation Code (IECC) and ASHRAE 90.1.

<sup>1</sup> AP Armaflex meets CAN/ULC S102. AP Armaflex Black tested. AP Armaflex White determined to be comparable.

<sup>2</sup> On the heating cycle, AP Armaflex LapSeal tube insulation will withstand temperatures as high as 220°F (105°C). 520, 520 Black or 520 BLV Adhesive may be used with pipe insulation applications up to 220°F (105°C).

<sup>3</sup> At temperatures below -20°F (-29°C), elastomeric insulation starts to become less flexible. However, this characteristic does not affect thermal efficiency and resistance to water vapor permeability.

<sup>4</sup> For applications of -40°F to -297°F (-40°C to -183°C), contact Armacell.

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