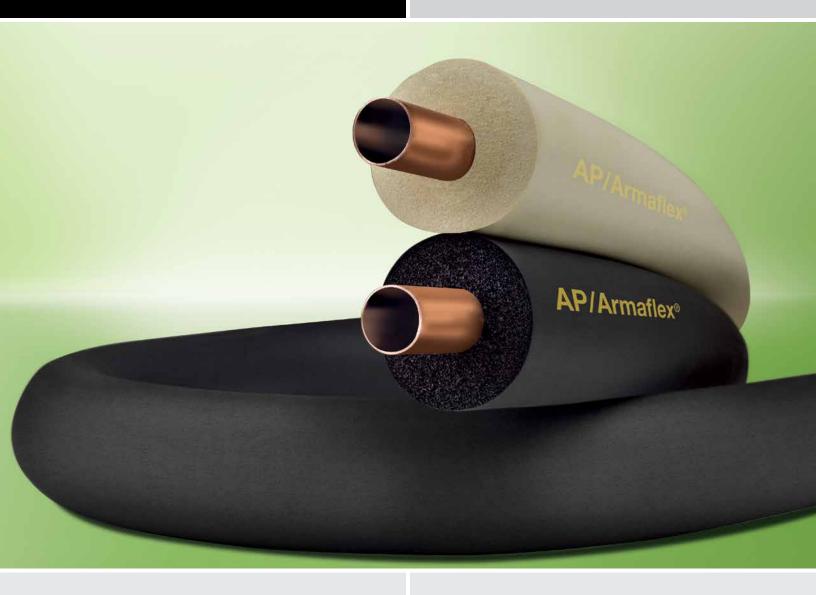
# AP/Armaflex®

White and Black Tube Insulation The original, fiber-free, flexible elastomeric pipe insulation for reliable protection against condensation and energy loss.



- Fiber-free, formaldehyde-free, low VOC and nonparticulating formulation protects indoor air quality
- Closed-cell structure provides excellent condensation 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 up to 2" wall
- Available up to 2" wall and 10" ID











## Technical Data: AP Armaflex® Tube Insulation

### **Description:**

Black or off-white flexible closed-cell elastomeric thermal insulation in a tubular form

#### Applications:

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

## Specifications Compliance:

ASTM C 534, Type I — Grade 1 ASTM G21/C1338 MEA 107-89M MIL-P-15280J, FORM T ② UL 181 UL 94 5V-A, V-0, File E55798 City of NFPA 90A, 90B UL 7642

### Approvals, Certifications, Compliances:

- 3rd party certified by Factory Mutual through 1" 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" & 2" Walls		
Thermal Conductivity: Btu • in/h • ft² • °F [W/mK]				
75°F Mean Temperature (24°C) 90°F Mean Temperature (32°C)	0.245 (0.0353) 0.254 (0.0366)	0.28 (0.040) 0.286 (0.041)	ASTM C 177 or C 518	
Water Vapor Permeability: 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	
Flame Spread and Smoke Developed Index:	25/50 rated	25/50 rated	ASTM E 84 CAN/ULC S102 <sup>①</sup>	
Water Absorption, % by Volume:	0.2%	0.2%	ASTM C 209	
Mold Growth: Fungi Resistance: Bacterial Resistance:	Passed	Passed	UL181 ASTM G21/C1338 ASTM G22	
Upper Use Limit:	220°F (105°C) <sup>3</sup>	300°F (149°C) <sup>4</sup>	ASTM C534	
Lower Use Limit: <sup>⑤</sup>	-297°F (-183°C) ©	-297°F (-183°C) ®	ASTM C534	
Ozone Resistance:	GOOD	GOOD	Ozone Chamber Test	

Sizes:		
Wall Thickness (nominal)	3/8", 1/2", 3/4", 1", 1-1/2", 2" [10, 13, 19, 25, 38, 50 mm]	
Inside Diameter, Tubular	3/8" ID to 10"ID (10 mm ID to 250 mm ID)	
Length of Sections, Feet, Tubular	6' (1.8 m) (Some larger sizes may be shipped in two 3' sections)	

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

- ① AP Armaflex meets CAN/ULC S102 through 1" wall. AP Armaflex Black tested. AP Armaflex White determined to be comparable through 1" wall.
- ② AP Armaflex meets MIL-P-15280J through 1" wall.
- ® AP Armaflex Pipe Insulation can withstand temperatures as high as 250°F for 96 hour time periods when tested according to ASTM C411 Standard Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation.
- 1-1/2" and 2" AP Armaflex tubes are formulated with EPDM rubber giving them a higher upper use temperature than AP Armaflex tubes less than 1-1/2" wall thickness.
- ® For applications of -40°F to -297°F (-40°C to -183°C), contact Armacell.

# **ARMACELL LLC** TEL: 800.866.5638 FAX: 919.304.3847

info.us@armacell.com www.armacell.us 7600 Oakwood Street Extension, Mebane, NC 27302



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