

Fiber Free

AP/Armaflex® SA AP/Armaflex® FS SA Self-Adhering Sheet & Roll Insulation

The original, fiber-free, flexible elastomeric pipe, valve and duct insulation – with a labor-saving self-adhering system – for reliable protection against condensation, mold and energy loss. AP Armaflex FS SA is PVC free.



- Self-adhering system makes application easy and reduces installation time
- Fiber-free, formaldehyde-free, low VOC and non-particulating 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 1" thickness in AP Armaflex
1-1/2" and 2" thickness in AP Armaflex FS
- Thickness up to 2" with R-value up to R-8

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.

armacell®



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® SA and AP Armaflex® FS SA Self-Adhering Sheet and Roll Insulation

Description:

Black flexible closed-cell elastomeric thermal insulation in sheet and roll form with a self-adhering backing.

Specifications Compliance:

ASTM C 534, Type II — Sheet Grade 1 ASTM C 1534 ASTM D 1056, 2B1	ASTM E 84, NFPA 255, UL723 ASTM G21/C1338 ASTM G22 CAN/ULC S102 ¹	MEA 107-89M MIL-P-15280J, FORM S ² MIL-C-3133C (MIL STD 670B) Grade SBE 3 ²	NFPA 90A, 90B UL 181 City of LA – RR 7642
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Approvals, Certifications, Compliances:

- GREENGUARD Gold 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:
	AP Armaflex SA through 1"	AP Armaflex FS SA 1-1/2" & 2"	AP Armaflex SA 1-1/2" & 2"	
Thermal Conductivity: Btu • in./h • ft ² • °F (W/mK)				
75°F Mean Temperature (24°C)	0.245 (0.0353)	0.28 (0.040)	0.25 (0.036)	ASTM C 177 or C 518
90°F Mean Temperature (32°C)	0.254 (0.0366)	0.286 (0.041)	0.256 (0.037)	
Water Vapor Permeability: Perm-in. [Kg/(s • m • Pa)]	0.05 (0.725 x 10 ⁻¹³)	0.08 (1.16 x 10 ⁻¹³)	0.05 (0.725 x 10 ⁻¹³)	ASTM E 96, Procedure A
Flame Spread and Smoke Developed Index:	25/50 rated	25/50 rated	Does not pass	ASTM E 84 CAN/ULC S102 ¹
Water Absorption, % by Volume:	0.2%	0.2%	0.2%	ASTM C 209
Mold Growth: Fungi Resistance: Bacterial Resistance:	Passed	Passed	Passed	UL181 ASTM G21/C1338 ASTM G22
Upper Use Limit:	180°F (82°C)	180°F (82°C)	180°F (82°C)	
Lower Use Limit: ³	-297°F (-183°C) ⁴	-297°F (-183°C) ⁴	-297°F (-183°C) ⁴	
Ozone Resistance:	GOOD	GOOD	GOOD	

R-Value:	R-1.6	R-2.1	R-3.1	R-4.2	R-6	R-8
Thickness:	3/8"	1/2"	3/4"	1"	1-1/2"	2"

Sizes:

Sheet: Width x Length Thickness (nominal)	36" x 48" (.915m x 1.22m) 1/4", 3/8", 1/2", 3/4", 1", 1-1/2" & 2" (6, 10, 13, 19, 25, 38 & 50mm)					
Roll: Width Thickness (nominal) x Length	48" wide (1.22m)		1" x 35' (25mm x 10.7m)		1-1/2" x 25' (38mm x 7.6m)	
	3/8" x 100' (10mm x 30.5m)		2" x 18' (50mm x 5.4m)			
	1/2" x 70' (13mm x 21.4m)					
	3/4" x 50' (19mm x 15.2m)					

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.

¹ AP Armaflex meets CAN/ULC S102 through 1" thickness.

² AP Armaflex meets MIL-P-15280J, FORM S and MIL-C-3133C (MIL STD 670B) Grade SBE through 1" thickness. Only AP Armaflex is FM Certified.

³ 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 of Armaflex insulation.

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

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