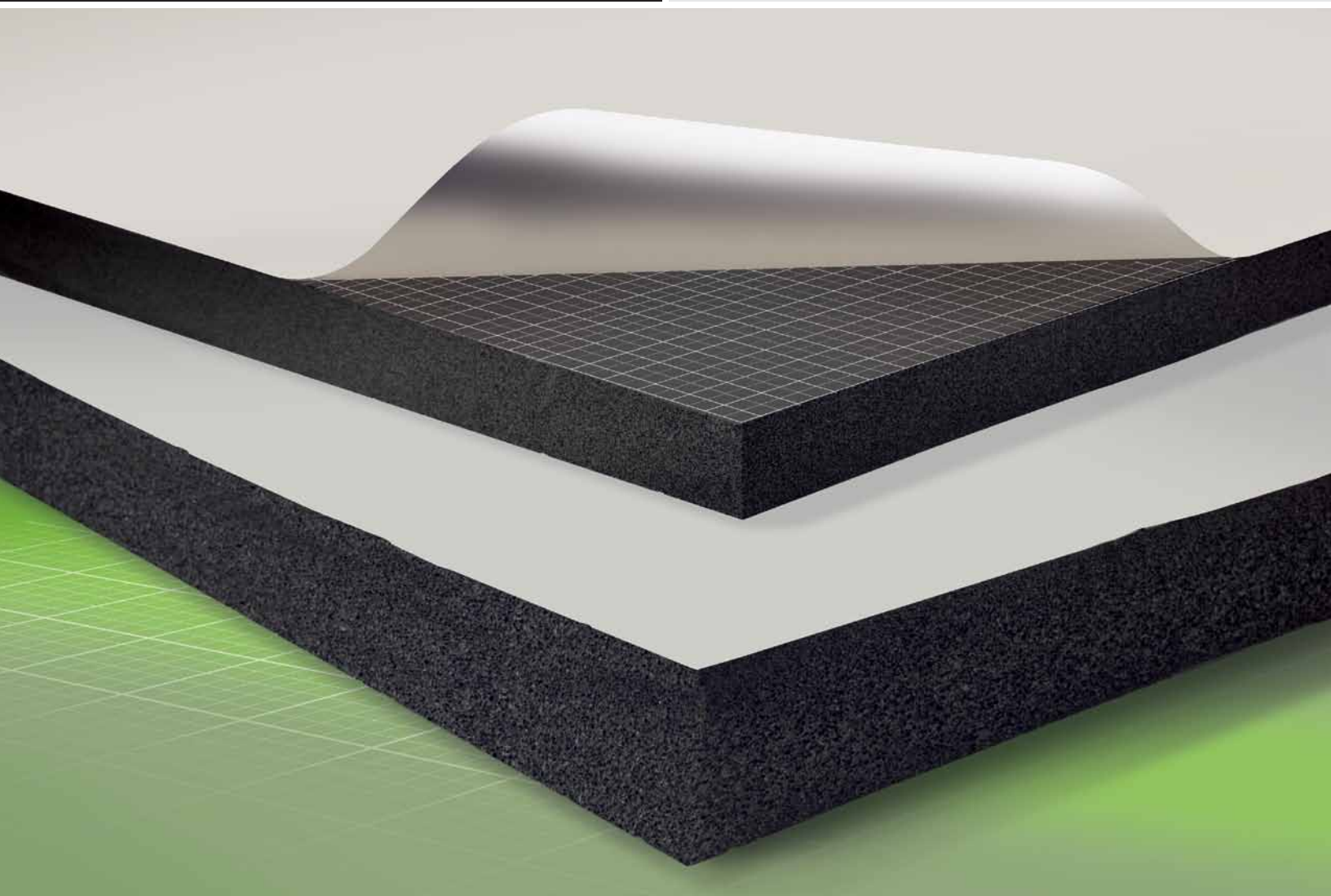


Fiber Free

# 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



- 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 provides exceptional mold resistance
- 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



## 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 <sup>1</sup>	MEA 107-89M MIL-P-15280J, FORM S <sup>2</sup> MIL-C-3133C (MIL STD 670B) Grade SBE 3 <sup>2</sup>	NFPA 90A, 90B UL 181 UL 94 5V-A, V-0, File E55798 City of LA – RR 7642
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### Approvals, Certifications, Compliances:

- GREENGUARD® Children & Schools Indoor Air Quality certified.
- Made with EPA registered Microban® antimicrobial product protection.
- Manufactured without CFCs, HFCs, HCFCs, PBDEs, or Formaldehyde.
- 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"	
<b>Thermal Conductivity:</b> Btu • in./h • ft <sup>2</sup> • °F (W/mK)				
75°F Mean Temperature (24°C)	0.25 (0.036)	0.28 (0.040)	0.25 (0.036)	ASTM C 177 or C 518
90°F Mean Temperature (32°C)	0.256 (0.037)	0.286 (0.041)	0.256 (0.037)	
<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> )	0.05 (0.725 x 10 <sup>-13</sup> )	ASTM E 96, Procedure A
<b>Flame Spread and Smoke Developed Index:</b>	25/50 rated	25/50 rated	Does not pass	ASTM E 84 CAN/ULC S102 <sup>1</sup>
<b>Water Absorption, % by Volume:</b>	0.2%	0.2%	0.2%	ASTM C 209
<b>Mold Growth: Fungi Resistance: Bacterial Resistance:</b>	Passed	Passed	Passed	UL181 ASTM G21/C1338 ASTM G22
<b>Upper Use Limit:</b>	180°F (82°C)	180°F (82°C)	180°F (82°C)	
<b>Lower Use Limit:</b> <sup>3</sup>	-297°F (-183°C) <sup>4</sup>	-297°F (-183°C) <sup>4</sup>	-297°F (-183°C) <sup>4</sup>	
<b>Ozone Resistance:</b>	GOOD	GOOD	GOOD	

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

### Sizes:

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

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

<sup>2</sup> 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.

<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 of Armaflex insulation.

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

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