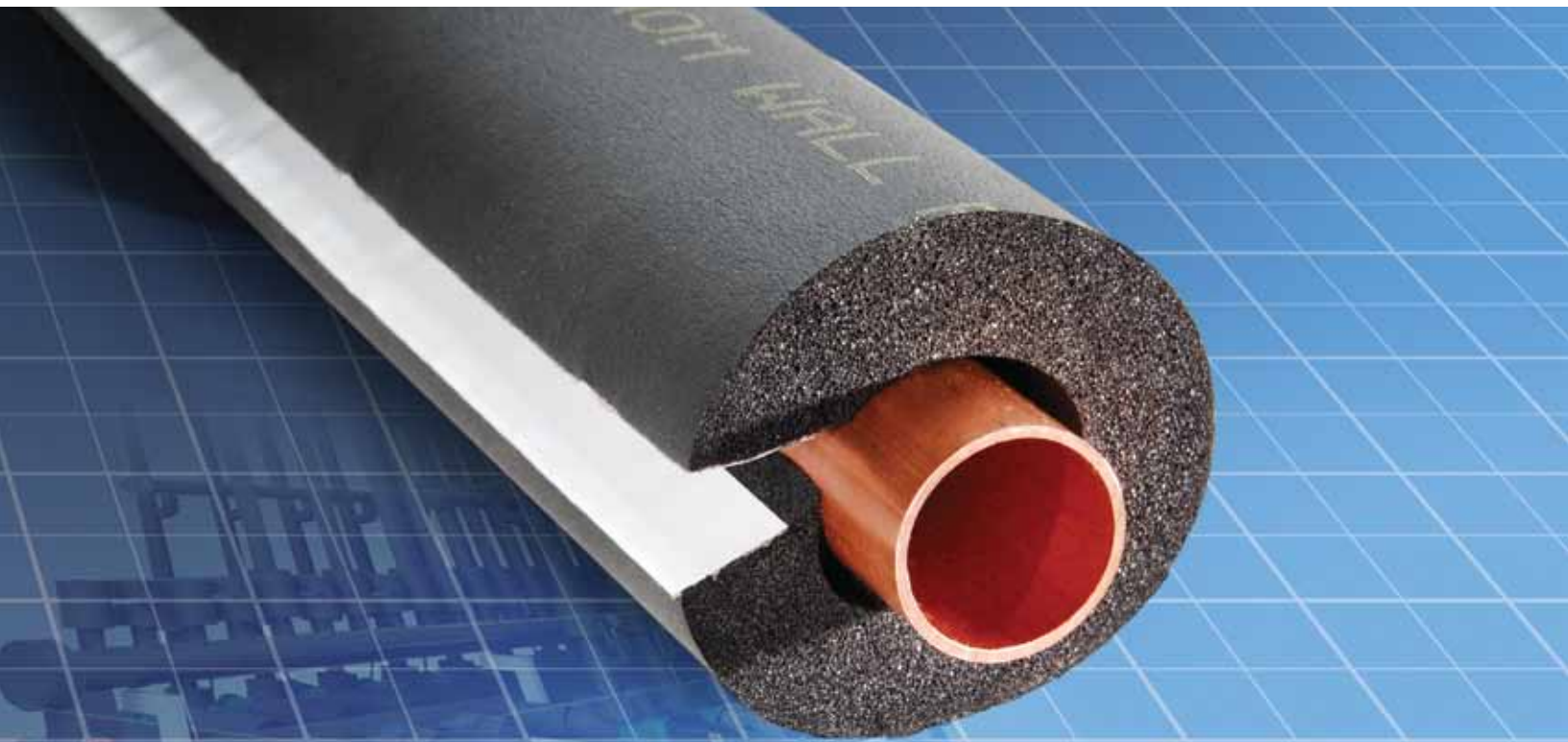


230719- B.1 - REFRIGERATION FLEXIBLE ELASTOMERIC
INSULATION - EE ENERGY CODE - SUCTION MAX 40 DEGREES = 1/2" &
LIQUID -104 DEGREES = 1"

Fiber Free



AP/Armaflex® SS

Self-Seal Tube Insulation

Superior Moisture Control, Mold Resistant – Faster!



- Fiber Free, Closed Cell, Non-Wicking
- GREENGUARD Children and Schools Certified®
- Made with Microban® Antimicrobial Product Protection
- Thickness up to 1" Wall
- 25/50 Rated
- Self-Seal



AP Armaflex SS Self-Seal Pipe (Tube) Insulation

AP Armaflex SS Self-Seal Pipe (Tube) Insulation saves labor and installed costs. It is the self-sealing version of the original closed cell, fiber-free elastomeric foam, the world's most recognized brand in flexible mechanical insulation.

- **Proven:** Fewer seams to seal, faster way to insulate chilled water and refrigeration lines
- **Mold resistant:** Made with Microban antimicrobial product protection
- **Indoor Air Quality-friendly:** Fiber-free, formaldehyde-free, low VOCs, nonparticulating. GREENGUARD Indoor Air Quality Certified®.
- **Durable:** No fragile vapor retarder

Description

AP Armaflex SS Self-Seal Pipe Insulation is a 25/50-rated black flexible elastomeric thermal insulation. The expanded closed-cell structure makes it an efficient insulation. It is manufactured without the use of CFC's, HFC's or HCFC's. All AP Armaflex products are made with Microban® antimicrobial product protection for added defense against mold on the insulation.

- Nominal wall thicknesses of 3/8", 1/2", 3/4", 1" (10, 13, 19, and 25mm)
- Popular sizes up to 4" IPS

Factory Mutual (FM) Approvals

AP Armaflex SS is certified through ongoing supervision by Factory Mutual Approvals to consistently provide actual values on these key performance criteria for mechanical system insulation:

- **Thermal Conductivity:** 0.25 BTU-in/hr. ft² °F
- **Water Vapor Transmission:** 0.05 perm-inch
- **Fire Rating:** will not contribute significantly to fire (simulated end-use testing)

As tested by ASTM E 84 "Method of Test for Surface Burning Characteristics for Building Materials" and CAN/ULC S-102, AP Armaflex SS Pipe Insulation wall thicknesses through 1" (25mm) has a flame-spread index of less than 25 and a smoke-developed index of less than 50.

Note: Numerical flammability ratings alone may not define the performance of products under actual fire conditions. They are provided only for use in the selection of products to meet limits specified.

Uses

- Retards heat gain and controls condensation drip from chilled-water and refrigeration systems. Efficiently reduces heat flow for hot-water plumbing, liquid-heating and dual-temperature piping
- Acceptable in wall thicknesses through 1" (25mm) for use in air plenums and conforms to NFPA 90A and NFPA 90B requirements

The recommended temperature usage range for AP Armaflex SS Pipe Insulation is -297°F to +180°F (-183°C to +82°C). For use on cold pipes, thicknesses have been calculated to control condensation on the insulation outer surface, as shown in the table of thickness recommendations. AP Armaflex meets the energy code requirements of ASHRAE 90.1, International Energy Conservation Code (IECC) and other building codes.

Application

AP Armaflex SS Pipe Insulation can be snapped over piping already connected. Fitting covers are fabricated from miter-cut tubes. Butt joints are to be sealed with one of our Armaflex adhesives: Armaflex 520, 520 Black or, where a low V.O.C. adhesive is required, 520 BLV. 520 Adhesives are contact adhesives; therefore, in all cases, both surfaces to be joined are coated with adhesive.

AP Armaflex SS is designed for installation above or below ground. For below ground applications, contact Armacell or see our Technical Bulletin No. 7 on our website, www.armacell.com. Outdoors, a weather-resistant protective finish is to be applied and Armaflex WB Finish is recommended.

AP Armaflex normally requires no supplemental vapor-retarder protection but additional vapor-retarder protection may be necessary when installed on very-low temperature piping or exposure to continually high humidity conditions. Outdoors a protective finish is to be applied and Armaflex WB Finish is recommended. Armaflex insulation products must be installed according to "Installation of Armaflex Insulations" brochure. Proper installation is required to assure Armaflex insulation performance. Before starting, the temperature of the air and of the insulation should be between 40°F (4°C) and 100°F (38°C) at the time of installation.

Note: Self-Seal Armaflex features an advanced pressure sensitive adhesive (PSA) system for tight bonds. However, any factory applied PSA is susceptible to losing tack and hence loss of adhesion properties if left unused for a prolonged period. For best results, Armacell recommends applying Armaflex self seal products within one year of lamination date.

Specification Compliance

AP Armaflex SS Pipe Insulation developed to meet:

ASTM C 534, Type I – Tubular Grade 1	ASTM G-21/C1338 ASTM G-22
ASTM E 84, NFPA 255, UL 723	ASTM D 1056, 2B1
CAN/ULC S102	MIL-P-15280J, FORM T
NFPA 90A, 90B	MIL-C-3133C (MIL STD 670B), Grade SBE 3
UL 181	MEA 96-85-M City of LA – RR 7642

ALL ARMACELL FACILITIES
IN NORTH AMERICA ARE
ISO 9001:2008 CERTIFIED.

AP Armaflex SS Self-Seal Tube Insulation

www.armacell.us

For the latest document, please refer to our website.

Physical Properties

Specifications	Values	Test Method
Thermal Conductivity, Btu • in./h • ft² • °F (W/mK) 75°F Mean Temperature (24°C) 90°F Mean Temperature (32°C)	0.25 (0.036) 0.256 (0.037)	ASTM C 177 or C 518
Water Vapor Permeability, Perm-in. [Kg/(s•m•Pa)]	0.05 (0.725 x 10 ⁻¹³)	ASTM E 96, Procedure A
Flame Spread and Smoke Developed Index through 1" (25mm)	25/50	ASTM E 84 CAN/ULC S102**
Mold Growth Fungi Resistance Bacterial Resistance	UL181 ASTM G21/C1338 ASTM G22	Meets requirements Meets requirements Meets requirements
Water Absorption, % by Volume	0.2%	ASTM C 209
Upper Use Limit ^①	180°F (82°C)	—
Lower Use Limit ^②	-297°F (-183°C)*	—
Ozone Resistance	GOOD	—
Sizes Wall thickness, (nominal) Inside diameter, tubular Length of sections, tubular	3/8", 1/2", 3/4", 1" (10, 13, 19, 25mm) 5/8" ID to 4" IPS (15mm to 114mm) 6' (1.8m)	—

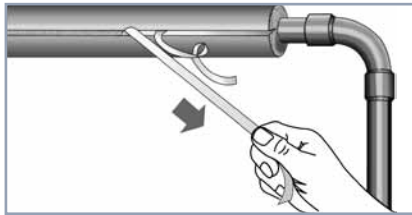
Notes

① On the heating cycle, AP Armaflex SS Pipe Insulation will withstand temperatures as high as 220°F (105°C) intermittent exposure. For continuous exposure the temperature should be limited to 180°F (82°C).

② At temperatures below -20°F (-29°C), elastomeric insulation starts to become less flexible. However, this characteristic does not affect thermal efficiency or water vapor permeability of Armaflex insulation.

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

Performance approved through continuing supervision by Factory Mutual Approvals.



Peel the protective release strips from the adhesive surface in 8" and 12" increments *after* insulation is snapped over pipe. The protective release strips can be removed by gently pulling at an angle. Apply firm and even pressure along the entire longitudinal seam for proper seal.

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