

Fiber Free

AP/Armaflex[®] Insulation Tape

The mold resistant, elastomeric, AP/Armaflex pressure sensitive insulation tape that provides a fast, easy method of insulating pipes and fittings



- High-quality AP/Armaflex insulation
- Fast on difficult pipes and fittings
- Controls condensation and heat loss
- Clean, smooth appearance



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.

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 Insulation Tape

Description:

A black, closed cell, mold resistant, elastomeric thermal insulation for insulating pipes and fittings

Specifications Compliance:

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

Approvals, Certifications, Compliances:

- Key physical properties are approved by Factory Mutual.
- 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: |
|---|-----------------------------------|---------------------------|
| Thermal Conductivity: Btu • in./h • ft ² • °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: | 25/50 rated | ASTM E 84 Can/ULC S102 |
| Mold Growth: | UL181 | UL181 |
| Fungi Resistance : | ASTM G21/C1338 | ASTM G21/C1338 |
| Bacterial Resistance: | ASTM G22 | ASTM G22 |
| Upper Use Limit: ² | Up to 180°F (82°C) | ASTM C534 |
| Lower Use Limit: ² | -297°F (-183°C) ³ | ASTM C534 |
| Ozone Resistance: | GOOD | — |

Thickness Recommendations:

Thickness recommendations to control sweating and dripping based upon available manufactured thicknesses and not intended to supersede any state or local building codes.

| Air Temperature and Relative Humidity | Pipe Temperature | |
|---------------------------------------|-------------------------------|------------------------------|
| | 50 °F* (10 °C) | 35 °F** (2 °C) |
| 80°F (27°C) & 50% RH | 50% overlap | 50% overlap |
| 85°F (30°C) & 70% RH | 50% overlap plus single layer | 50% overlap plus 50% overlap |

* Up to 2-5/8" ID – 3/8" (10 mm) required; 3-1/8" ID – 5" IPS – 1/2" (13 mm) required

** Up to 2-5/8" ID – 1/2 (13 mm) required; 3-1/8" ID – 5" IPS – 3/4" (19 mm) required

Approximate Coverage:

Linear feet (Linear Meters) of pipe – one 30-ft (9.1 m) roll

| Copper Tubing Size | Installation Methods* | | | | | | Iron Pipe Size | Installation Methods* | | | | | |
|--------------------|-----------------------|--------|----------|--------|----------|--------|----------------|-----------------------|--------|----------|--------|----------|--------|
| | A | | B | | C | | | A | | B | | C | |
| | lin. ft. | lin. m | lin. ft. | lin. m | lin. ft. | lin. m | | lin. ft. | lin. m | lin. ft. | lin. m | lin. ft. | lin. m |
| 3/8" OD | 15-1/4 | (4.6) | 8-1/2 | (2.6) | 15-1/4 | (1.7) | 1/4" IPS | 12 | (3.7) | 7 | (2.1) | 4-1/2 | (1.4) |
| 1/2" OD | 12-3/4 | (3.9) | 7-1/4 | (2.2) | 12-3/4 | (1.5) | 3/8" IPS | 10-1/4 | (3.1) | 6 | (1.8) | 4 | (1.2) |
| 5/8" OD | 11 | (3.4) | 6-1/2 | (2.0) | 11 | (1.2) | 1/2" IPS | 8-3/4 | (2.7) | 5-1/4 | (1.6) | 3-1/2 | (1.1) |
| 3/4" OD | 9-1/2 | (2.9) | 5-3/4 | (1.8) | 9-1/2 | (1.1) | 3/4" IPS | 7-1/4 | (2.2) | 4-1/4 | (1.3) | 3 | (0.9) |
| 7/8" OD | 8-1/2 | (2.6) | 5 | (1.5) | 8-1/2 | (1.1) | 1" IPS | 6 | (1.8) | 3-3/4 | (1.1) | 2-1/2 | (0.8) |
| 1" OD | 7-1/2 | (2.3) | 4-1/2 | (1.4) | 7-1/2 | (1.0) | 1-1/4" IPS | 5 | (1.5) | 3 | (0.9) | 2-1/4 | (0.7) |
| 1-1/8" OD | 7 | (2.1) | 4-1/4 | (1.3) | 7 | (0.9) | 1-1/2" IPS | 4-1/2 | (1.4) | 2-3/4 | (0.9) | 2 | (0.6) |
| 1-3/8" OD | 6 | (1.8) | 3-1/2 | (1.1) | 6 | (0.8) | 2" IPS | 3-1/2 | (1.1) | 2-1/4 | (0.7) | 1-3/4 | (0.5) |
| 1-5/8" OD | 5 | (1.5) | 3-1/4 | (1.0) | 5 | (0.7) | — | — | — | — | — | — | |
| 2-1/8" OD | 4 | (1.2) | 2-1/2 | (0.8) | 4 | (0.5) | — | — | — | — | — | — | |

* INSTALLATION METHODS: A – 50% overlap wrapping; B – 50% overlap plus single-layer wrapping; C – 50% overlap wrapping plus overlap wrapping

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