



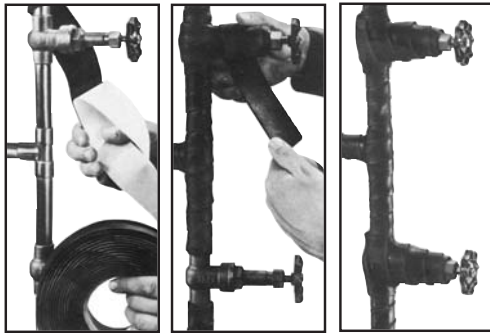
THE MAKERS OF
Armaflex®

Description

AP/Armaflex Insulation Tape is made of high-quality AP Armaflex Insulation, an elastomeric thermal insulation material. The self-adhering tape is supplied in convenient strip form, 2" (50mm) wide, 30' (9.1m) long, and 1/8" (3mm) thick. No bands, wires, or additional adhesive needed. Available in standard cartons and tape dispensers. The expanded closed-cell structure of Armaflex makes it an efficient insulation. It is manufactured without the use of CFC's, HFC's or HCFC's. It is also formaldehyde free, low VOCs, fiber free, dust free and resists mold and mildew.

Uses

AP/Armaflex Insulation Tape provides a fast, easy method of insulating pipes and fittings. It is used to control condensation drip on domestic cold-water, chilled-water, and other cold piping



and fittings and to reduce heat loss when applied to hot-water lines that will operate up to 180°F (82°C). AP Armaflex Insulation Tape may be used in conjunction with AP Armaflex Pipe and Sheet Insulation. Its greatest advantage, however, is the ease with which it can be used to insulate short lengths of pipe and fittings in congested or hard-to-reach areas.

Application Instructions

AP/Armaflex Insulation Tape is applied by removing release paper as the tape is spirally

wrapped around the piping or fittings and pressed firmly in place. Avoid stretching the tape as it is being wrapped. Pressure-sensitive adhesive adheres firmly and forms a long-lasting



bond with metal surfaces. On cold piping, the number of wraps required must be sufficient to keep the outer insulation surface above the dew point of the air so that sweating will be controlled. On hot lines, the number of wraps is dictated only by the amount of heat loss control that is desired. On dual-temperature lines, any number of wraps sufficient to control sweating on the cold cycle is usually adequate for the heating cycle.

Multiple wraps are recommended. (See table.) Tape should be applied with a spiral wrap to obtain a 50% overlap. Additional layers are added to build up insulation to the required thickness.

To insulate valves, tees, and other fittings, small pieces of tape should be cut to size and pressed into place, with no metal exposed. The fitting then is additionally over-wrapped with longer lengths for a durable and efficient job.

AP/Armaflex®
INSULATION TAPE

QUICK COMPLETION FOR HARD-TO-REACH AREAS

High-quality AP/Armaflex insulation

Fast on difficult pipes & fittings

Controls condensation & heat loss

Clean, smooth appearance



- Tubes 
- Sheets & Rolls 
- Pipe & Hangers 
- Insulation Tape 
- Sundries 

Physical Data

Average Properties of AP Armaflex Insulation Tape

| | | |
|--|-------------------------------------|--|
| Thermal Conductivity, Btu • in./h • ft ² • °F (W/mK) 75°F (24°C) mean temperature 90°F (32°C) mean temperature | 0.27 (0.039) 0.276 (0.040) | ASTM C 177 or C 518 |
| Water vapor permeability, perm-inch [Kg/(s•m•Pa)] | 0.08 (1.16 x 10 ⁻¹³) | ASTM E 96 Procedure A |
| Flame Spread and smoke developed index | 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 |
| Upper use limit | up to 180° F (82°C) | — |
| Lower use limit | -70°F (-57°C) | — |
| Ozone resistance | Good | — |

Armaflex Pipe Insulation Thickness Recommendations

Thickness to Control Sweating and Dripping

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

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

Approximate Coverage

Linear Feet (Linear Meters) of Pipe—One 30-Ft (9.1m) 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) | 5-1/2 | (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) | 4-3/4 | (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) | 4 | (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) | 3-3/4 | (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) | 3-1/2 | (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) | 3-1/4 | (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) | 3 | (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) | 2-1/2 | (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) | 2-1/4 | (0.7) | — | — | — | — | — | — | |
| 2-1/8" OD | 4 | (1.2) | 2-1/2 | (0.8) | 1-3/4 | (0.5) | — | — | — | — | — | — | |

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



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