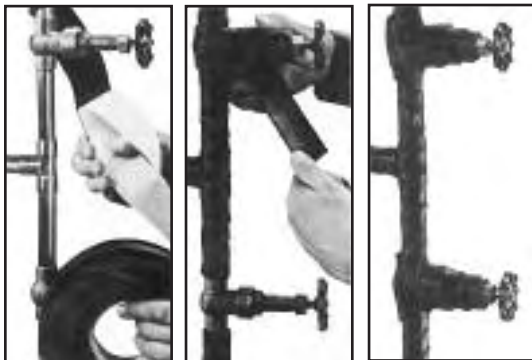


Description

Mold resistant 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. It is also made with Microban® antimicrobial product protection.

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



ALL ARMACELL FACILITIES IN NORTH AMERICA ARE ISO 9001:2000 CERTIFIED.

Tubes



Sheets & Rolls



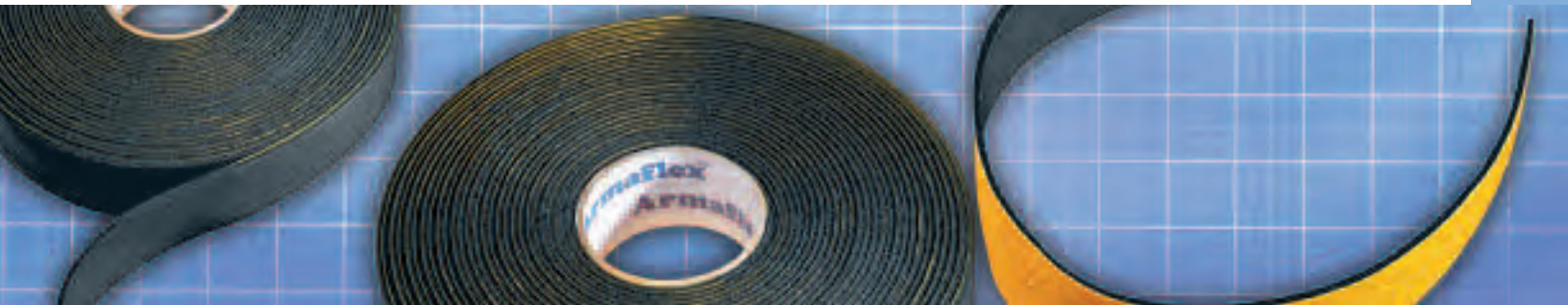
Pipe Hangers



Insulation Tape



Sundries



Physical Data

Average Properties of AP Armacell Insulation Tape

Thermal Conductivity, Btu • in./h • ft ² • °F (W/mK) 75°F (24°C) mean temperature 90°F (32°C) mean temperature	0.25 (0.036) 0.256 (0.037)	ASTM C 177 or C 518
Water vapor permeability, perm-inch [Kg/(s•m•Pa)]	0.05 (0.725 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	-297°F (-183°C)*	—
Ozone resistance	Good	—

Armacell Pipe Insulation Thickness Recommendations

Thickness recommendations to Control Sweating and Dripping (based upon available manufactured thicknesses and not intended to supercede 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 (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

Microban is a registered trademark of Microban Products Company.



ARMACELL LLC
7600 Oakwood Street Extension
Mebane, NC 27302

TEL. 919 304-3846 • FAX 919 304-3847
E-MAIL info.us@armacell.com
INTERNET www.armacell.com

For any updates on this document, please refer to our website.

Armacell provides this information as a technical service. To the extent the information is derived from sources other than Armacell, Armacell is substantially, if not wholly, relying upon the other source(s) to provide accurate information. Information provided as a result of Armacell's own technical analysis and testing is accurate to the extent of our knowledge and ability, as of date of printing, using effective standardized methods and procedures. Each user of these products, or information, should perform their own tests to determine the safety, fitness and suitability of the products, or combination of products, for any foreseeable purposes, applications and uses by the user and by any third party to which the user may convey the products. Since Armacell cannot control the end use of this product, Armacell does not guarantee that the user will obtain the same results as published in this document. The data and information are provided as a technical service and are subject to change without notice.