

**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.

**Uses**

AP/Armaflex Insulation Tape provides a fast, easy method of insulating pipes and fittings. It is used to control condensation drip from 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**

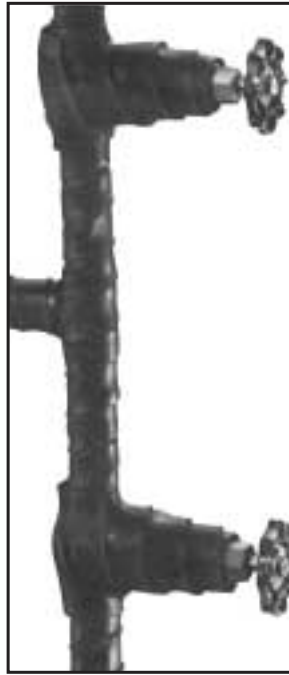
AP/Armaflex Insulation Tape is applied by removing

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.



AP Armaflex Insulation Tape is available in standard cartons and tape dispensers.

**AP/Armaflex®  
INSULATION TAPE**



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.



## Physical Data

### Average Properties of AP Armacell Insulation Tape

Thermal Conductivity, Btu • in./h • ft <sup>2</sup> • °F [W/(m • K)] 75°F (24°C) mean temperature 90°F (32°C) mean temperature	0.27 (0.039) 0.276 (0.040)
Upper temperature use limit, °F (°C)	up to 180 (82°C)
Water vapor permeability, perm-in. [Kg/(s•m•Pa)]	0.08 (1.16 x 10 <sup>-13</sup> )
Ozone resistance	Good

## Armacell 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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