

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

 **armacell**  
advanced insulation



## 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
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### Approvals, Certifications, Compliances:

- Key physical properties are approved by Factory Mutual.
- GREENGUARD® Children & Schools Indoor Air Quality 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:
<b>Thermal Conductivity:</b> Btu • in./h • ft <sup>2</sup> • °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
<b>Water Vapor Permeability:</b> Perm-in. [Kg/(s • m • Pa)]	0.05 (0.725 x 10 <sup>-13</sup> )	ASTM E 96, Procedure A
<b>Flame Spread and Smoke Developed Index:</b>	25/50 rated	ASTM E 84 Can/ULC S102
<b>Mold Growth:</b>	UL181	UL181
<b>Fungi Resistance :</b>	ASTM G21/C1338	ASTM G21/C1338
<b>Bacterial Resistance:</b>	ASTM G22	ASTM G22
<b>Upper Use Limit:</b> <sup>2</sup>	Up to 180°F (82°C)	ASTM C534
<b>Lower Use Limit:</b> <sup>2</sup>	-297°F (-183°C) <sup>3</sup>	ASTM C534
<b>Ozone Resistance:</b>	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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