Aerocel® AC Tube

EPDM Pipe Insulation

AEROFLEX®

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Unslit EPDM Pipe Insulation

Refrigeration | HVAC | VRF
Hot and Cold Water Piping

Closed-cell elastomeric foam, pipe insulation easily slides over piping for new installations or can be slit to snap over piping in existing installations. Proprietary blend of non-polar EPDM-rubber is key to consistent, long-lasting thermal performance and protection against moisture and environmental stresses.

Wide range of sizes and thicknesses to meet energy code and condensation control requirements. (See back cover.)

Fast, simple to install

- Easily slides over new installation piping
- Can be slit and snapped around piping already installed
- Built-in vapor retarder - No protective finish or vapor barrier required*

Superior environmental stability

- Non-polar - does not induce or react with water
- Stands up to UV and high humidity
- Non-corrosive on stainless steel and copper piping
- Suitable for indoor and outdoor applications*

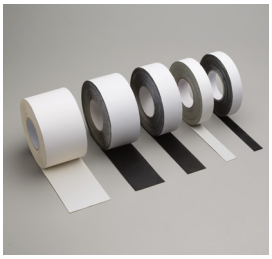
Safe for indoor environments

- Superior fire safety – 25/50 rated (ASTM E84) and self-extinguishing (ASTM D635) thru 2-inch thick
- GREENGUARD Gold Certified for low chemical emissions (VOCs)
- No CFCs, HFCs, HCFCs, PBDEs, formaldehyde, nitrosamine or fibers
- Naturally mold-resistant: no biocides required

All-inclusive insulation solutions:

Aerofix®
Light-weight, rigid pipe supports, pre-insulated with closed-cell EPDM foam rubber and encased with zero-perm EPDM polymer membrane. Includes built-in pressure sensitive Protape® closure system.

AeroFit™
Pre-fabricated fitting insulators made of closed-cell EPDM rubber for fast installation on hot/cold-water and refrigerant piping.



Protape®
EPDM-based, self-adhering rubber tape for sealing butt joints and termination points.

Aeroflex Adhesives
Specially formulated contact adhesives for Aerocel EPDM insulations.

*Vapor barrier may be required in extreme low-temperature or extreme high-humidity applications. Protective jacket required for direct-bury applications and if insulation may be subjected to mechanical damage.

Product: Closed-cell EPDM (Ethylene Propylene Diene Monomer)-based rubber elastomeric foam pipe insulation for HVAC piping (including VRF/VRV variable refrigerant systems), plumbing and refrigeration piping.

Standard Specification: ASTM C534 Type I Grade 1

Thermal Conductivity (K) Btu-in/hr-Ft² -°F (W/m.K)

Mean Temperature	K Value	Test Method
75°F (24°C)	0.245 (0.0353)	ASTM C518 /C177
90°F (32°C)	0.250 (0.0360)	

Physical and Operational Properties

Property	Test Value/Rating	Test Method
Service Temperature, CONTINUOUS	-297°F to +257°F -183°C to +125°C	ASTM C411[1]
U.V. Resistance	Minimal Cracking or color change	ASTM G7
Ozone Resistance	No cracking	ASTM D1171
Water Vapor Permeability, Max	0.03 perm-inch (4.38 x 10^{-11} g/Pa.s.m)	ASTM E96
Water Absorption (% by Volume), Max	0.2%	ASTM C209
Fire Safety Characteristics thru 2" thickness	Class V-O	UL 94
	25/50	ASTM E84
	Self-extinguishing	ASTM D635
Corrosion of Stainless Steel	Non-corrosive	ASTM C692, DIN 1988
Fungi Resistance	No Growth	ASTM C1318/G21
Mold Resistance	No Growth	UL181 Section 13
Flexibility	Pass	ASTM C534
Air Erosion	Pass	UL181 Section 18

Additional Approvals, Compliances, Etc.

ASTM D1056, 2C1	Standard Specification for Flexible Cellular Materials—Sponge or Expanded Rubber (2C1- Closed Cell Rubber, Oil resistant with medium mass change, Compression Deflection of 2 - 5 psi.)
ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1	International Green Construction Code (igCC)
ANSI/ASHRAE/IES Standard 90.1	Energy Standard for Buildings Except Low-Rise Residential Buildings
IECC	International Energy Conservation Code (IECC)
CA Title 24	California Building Energy Efficiency Standards
MEA #171-04-M	City of New York Material and Acceptance Pipe Insulation
CDPH Specification 01350	California Department of Public Health (VOC Emissions)

Potential LEED® Credit Contributions

Energy & Atmosphere (EA)	Prerequisite: Minimum Energy Performance Credit: Optimize Energy Performance
Indoor Environmental Quality (EQ)	Credit: Low-Emitting Materials Credit: Indoor Air Quality Assessment Credit: Thermal Comfort Credit: Acoustic Performance
Innovation (IN)	Credit: Occupant Comfort Survey

[1] AEROCEL flexibility begins to decrease at -70°F and below. This does not impact the insulating properties of the material.

AEROFLEX®

Aerocel® AC Pipe Insulation R-Values									
Pipe Size (in)	IPS (in)	Wall Thickness							
		1/4 in	3/8 in	1/2 in	3/4 in	1 in	1-1/2 in	2 in	3 in
1/4		1.7	3.0	4.0	6.7	10.0	17.5		
3/8		1.6	2.7	3.6	6.0	9.0	15.8	24.0	
1/2	1/4	1.5	2.5	3.4	5.5	8.3	14.4	21.9	
5/8	3/8	1.4	2.4	3.2	5.2	8.0	13.5	20.6	32.6
3/4		1.4	2.3	3.1	5.0	7.7	13.0	19.7	31.2
7/8	1/2	1.3	2.3	3.2	5.3	7.4	12.9	18.5	30.6
1 1/8	3/4	1.3	2.1	3.0	5.0	6.9	12.1	17.3	28.5
1 3/8	1	1.3	2.1	3.1	5.0	6.5	11.3	16.2	26.7
1 5/8	1-1/4		2.3	3.0	4.8	6.3	11.1	15.9	26.0
1 7/8	1-1/2		2.2	2.9	4.7	6.0	10.6	15.2	24.7
2 1/8			2.2	3.0	4.6	5.9	10.3	14.8	24.0
2 3/8	2		2.2	3.0	4.5	5.8	10.0	14.3	23.2
2 5/8			2.2	2.9	4.4	5.7	9.8	14.0	22.6
2 7/8	2-1/2		2.1	2.9	4.3	5.5	9.5	13.6	21.9
3 1/8			2.1	2.9	4.3	5.5	9.4	13.4	21.6
3 1/2	3		2.1	3.0	4.2	5.3	9.1	12.9	20.8
3 5/8			2.1	3.0	4.2	5.3	9.1	12.9	
4 1/8			2.1	2.9	4.1	5.2	8.9	12.5	20.0
4 1/2	4		2.0	2.9	4.0	5.1	8.7	12.2	19.6
5 1/8					4.0	5.1	8.5	11.9	19.0
5 1/2	5			2.8	3.9	5.0	8.4	11.7	18.6
6 1/8				2.8	3.9	4.9	8.2	11.5	
6 5/8	6			2.8	3.9	4.9	8.1	11.3	17.8

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