

# Aerocel<sup>®</sup> AC Tube

EPDM Pipe Insulation





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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 selfextinguishing (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<sup>®</sup> closure system.

#### AeroFit™

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



#### **Protape**<sup>®</sup>

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-Et<sup>2</sup> -°F (W/m.K)

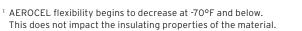
Mean Temperature	K Value	Test Method			
75°F (24°C)	0.245 (0.0353)				
90°F (32°C)	0.250 (0.0360)	ASTM C518 /C177			
Physical and Operational Properties					
Property	Test Value/Rating	Test Method			
Service Temperature, CONTINUOUS	-297°F to +257°F -183°C to +125°C	ASTM C411 <sup>1</sup>			
U.V. Resistance	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 <sup>-11</sup> g/Pa.s.m)	ASTM E96			
Water Absorption (% by Volume), Max	0.2%	ASTM C209			
	Class V-O	UL 94			
Fire Cofeby Characteristics they 21 this lange	25/50	ASTM E84			
Fire Safety Characteristics thru 2" thickness	Pass	NFPA 90A/90B			
	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®
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)
LEED®	U.S. Green Building Council - Leadership in Energy and Environmental Design
REACH	European Chemicals Agency (ECHA) - Registration, Evaluation, Authorization and Restriction of Chemicals
RoHS	European Union - Restriction of Hazardous Substances
MIL-P-15280 (Form S, Form T)	U.S. Department of Defense - Qualified Products List (06/24/2005)

# **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

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Aerocel <sup>®</sup> 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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