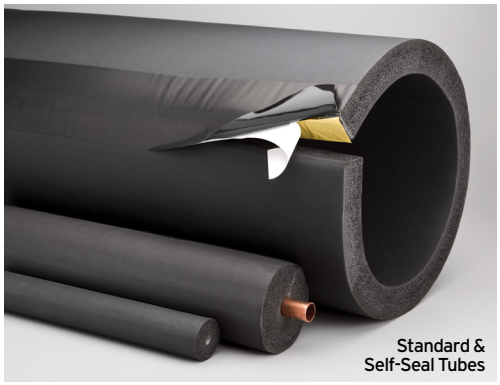
AEROFLEX®



Standard &
Self-Seal Tubes

Sheets & Rolls
Standard & PSA

AEROFLEX®-EP

FM Approved

FM Approvals Class: 4924 Pipe and Duct Insulation
FM Approval ID: PR465702

FM APPROVED

BUY AMERICAN COMPLIANT

Build America, Buy America Act (BABA) Complaint

AEROFLEX®

AEROFLEX®-EP

FM Approved EPDM Pipe & Duct Insulation

HVAC | VRF | Chilled Water | Refrigeration
Hot and Cold Water Piping

Closed-cell elastomeric foam pipe and duct insulation that conserves energy and controls condensation for projects that require FM Approval.

Meets minimum pipe insulation thickness and minimum R-value requirement of the International Energy Conservation Code® (IECC®) and ASHRAE 90.1. Energy Standard. To meet minimum R-value, insulation thickness may increase above the minimum thickness per IECC and 90.1.

Available in tubes (standard & self-seal) and sheets/rolls (standard & PSA). See back cover.

Fast, simple to install

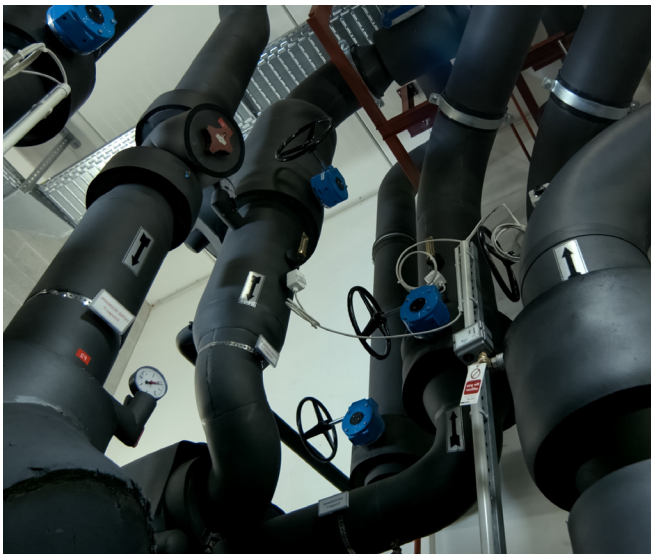
- Self-Seal and standard pipe insulation available up to 6" IPS and 2" thick.
- Self-Seal tubes reduce installation time.
- Built-in vapor retarder – No supplemental vapor barrier required for most applications.*

Superior environmental stability

- Nonpolar – does not induce or react with water
- Low thermal conductivity – reduced insulation thicknesses
- Greater UV resistance than NBR/PVC insulation
- Non-corrosive on stainless steel & copper piping
- Suitable for interior & exterior applications**

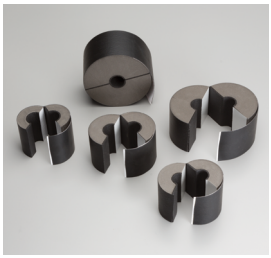
Safe for indoor environments

- Certified to meet FM Approval, Class of Work, Standard FM 4924 Pipe & Duct Insulation
- Does not contain asbestos, fibers, formaldehyde, lead, mercury, mercury compound, or nitrosamine
- Naturally mold-resistant: no biocides required
- Ultra-low PVC content – less than 1%



AEROFLEX EPDM™ insulation system solutions

(only Aeroseal Adhesive is FM Approved)



Aerofix®

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

Protape®

Zero-perm EPDM-based, self-adhering rubber tape for sealing glued insulation seams and termination points.

AEROFLEX® Adhesives

Specially formulated adhesives for bonding and vapor-sealing AEROFLEX EPDM™ insulation. Fast tack and LVOC formulations available.

Aerocoat®

Premium insulation coating specially formulated for AEROFLEX EPDM™ insulation to provide UV protection for exterior applications and as a decorative finish.

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

**For exterior applications, Aerocoat®, Aerocoat LVOC®, or an insulation jacket are recommended for UV protection to maximize the insulation's life cycle.

Product: Closed-cell EPDM (Ethylene Propylene Diene Monomer)-based rubber elastomeric foam pipe and duct insulation for HVAC (VRF, chilled water & refrigeration) and plumbing piping.

Standard Specification: ASTM C534, Type I & II, Grade 1 , FM Class: 4924

Installation Instructions:

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

Mean Temperature	K Value	Test Method
50°F (10°C)	0.257 (0.037)	ASTM C177/C518
75°F (24°C)	0.266 (0.038)	
100°F (38°C)	0.276 (0.040)	
125°F (52°C)	0.283 (0.041)	
150°F (66°C)	0.290 (0.042)	
200°F (93°C)	0.304 (0.044)	
250°F (121°C)	0.329 (0.047)	

Physical and Operational Properties

Property	Test Value/Rating	Test Method
Service Temperature, CONTINUOUS[1,2]	-70°F to 257°F -57°C to 125°C	ASTM C411[1]
Ozone Resistance	No cracking	ASTM D1171
Water Vapor Permeability, Max	< 0.10 (1.45 x 10[-10 power] g/Pa.s.m)	ASTM E96
Water Absorption (% by Volume), Max	0.2%	ASTM C209/C1763
Surface Burning/Flammability (through 2" thick)	FM Approval ID: PR465702	FM Approvals, Standard 4924
Density	3.0-6.0 lb/ft3	ASTM D1667
Linear Shrinkage	< 7.0%	ASTM C534

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

[2] Approved for intermittent operating temperatures to 300°F / 150°C for up to 30 minutes within a 24-hour period.

Additional Approvals, Certifications & Compliance

ASTM D1056, 2C1	Standard Specification for Flexible Cellular Materials—Sponge or Expanded Rubber
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
BABA	Build America, Buy America Act
Buy American	Buy American, Federal Acquisition Regulation, FAR 52.225 Buy American
CA Title 24	California Building Energy Efficiency Standards
EPA	Toxic Substances Control Act (TSCA) Persistent, Bioaccumulative, and Toxic (PBT) Chemicals, Per- and Polyfluoralkyl Substances (PFAS), Persistent Organic Pollutants (POP)
IECC®	International Energy Conservation Code®
Montreal Protocol	Manufactured without CFC and HCFC ozone-depleting blowing agents
REACH	European Chemicals Agency (ECHA) – Registration, Evaluation, Authorization and Restriction of Chemicals
RoHS	European Union – Restriction of Hazardous Substances

AEROFLEX®

AEROFLEX®-EP Standard and Self-Seal Pipe Insulation R-Values (75ºF / 24ºC mean temperature)					
Pipe Size (inches)	**IPS** (inches)	**Thickness (in)**			
		1/2	**1**	**1-1/2**	**2**
1/4		3.7*	9.3	15.6*	
3/8	1/8	3.3	8.4	14.1	22.6
1/2	1/4	3.1	7.7	13.0	20.7
5/8	3/8	2.9	7.4	12.4	19.4
3/4		2.8	7.1	11.8	18.6
7/8	1/2	2.9	6.8	11.9	17.5
1-1/8	3/4	2.8	6.4	11.1	16.3
1-3/8	1	2.8	6.1	10.5	15.3
1-5/8	1-1/4	2.7	5.8	10.2	15.0
1-7/8	1-1/2	2.7	5.6	9.8	14.3
2-1/8		2.8	5.5	9.6	13.9
2-3/8	2	2.7	5.3	9.4	13.5
2-5/8		2.7	5.3	9.1	13.2
2-7/8	2-1/2	2.7	5.1	8.9	12.8
3-1/8		2.6	5.1	8.8	12.6
3-1/2	3	2.7	5.0	8.6	12.2
3-5/8		2.7	5.0	8.5	12.2
4-1/8	3-1/2	2.7	4.9	8.3	11.8
4-1/2	4	2.7	4.8	8.2	11.6
5-1/8			4.7	8.0*	11.3*
5-1/2	5	2.6	4.7	7.9	11.1
6-1/8		2.6	4.6	7.7	10.9
6-5/8	6	2.6	4.6	7.7	10.7

AEROFLEX®-EP Sheet & Roll Insulation R-Values (75ºF / 24ºC mean temperature)				
Wall Thickness (inches)	**1/2**	**1**	**1-1/2**	**2**
R-Value	2.1	4.0	6.1	8.0

* Standard tube only

NOTE: The International Energy Conservation Code® (IECC®) and ASHRAE 90.1. Energy Standard require pipe insulation to meet either a minimum thickness or as an option minimum R-value (not both). Minimum thickness or R-value is determined by the authority having jurisdiction (federal, state, or local).

To meet minimum R-value, insulation thickness may increase above the minimum thickness specified by IECC and 90.1.

AEROFLEX EPDM™ pipe insulation thicknesses and R-values meet the minimum requirements of International Energy Conservation Code (IECC) and ASHRAE 90.1. Energy Standard.

Click **here** to learn more.

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