



AEROFLEX®

EPDM Insulating Fitting Covers

AeroFit™

EPDM Insulating Covers for
Standard and Grooved Fittings





AeroFit™ EPDM Insulating Fitting Covers

Unslit EPDM Pipe Insulation

HVAC | Refrigeration | VRF | Chilled Water | Hot & Cold-Water Piping

Closed-cell fitting covers for fast installation on piping systems insulated with Aerocel® closed-cell elastomeric foam insulation. Made with the same proprietary EPDM-based formula as other Aerocel insulations, AeroFit covers help maintain the superior performance of your non-polar EPDM insulating system.

Precise factory fabrication saves field labor and improves overall aesthetics of installation. Ensures consistent, long-lasting thermal performance and protection against moisture and environmental stresses.

Available in all Aerocel EPDM closed-cell elastomeric foam formulations – AC, White/Gray, Ultra Low Perm (ULP®) & Refrigeration (REF™)

Wide range of ID's (3/8" - 6" IPS) and thicknesses (1/2" - 2")



All-inclusive insulation solutions:



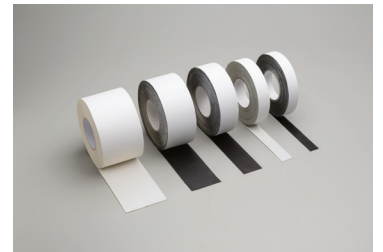
Aerofix®

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.



Aeroflex Adhesives

Specially formulated adhesive for bonding of Aerocel insulations. Fast tack and LVOC formulations available.



Protape®

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



Aerocoat™

A low-VOC specialty coating for exterior weather protection and decorative finish.

Fast, simple to install

Fabricated for standard and grooved fittings, 45° and 90° elbows, tees and p-traps

Eliminates need for jobsite/shop fabrication

Ready to be slit open, installed and glued with Aerocel adhesive and Protape® (optional)

Superior performance

Ensures full insulation thickness on fittings to manage heat gain/loss and prevent condensation

Wide service temperature range: -297°F (-183°C) to +257°F (+125°C)

Non-corrosive on stainless steel piping

Helps prevent corrosion under insulation (CUI)

Non-polar: does not induce or react to water

Naturally UV resistant

Safe for indoor environments

Superior fire safety - 25/50 rated and self-extinguishing

No CFC's, HFC's, HCFC's, PBDE's, Nitrosamine or fibers

GREENGUARD Gold Certified for low chemical emissions (Low-VOC)

Naturally mold-resistant; no added biocides required

Product: Closed-cell EPDM (Ethylene Propylene Diene Monomer) rubber elastomeric foam pipe insulation for insulating fittings on HVAC, refrigeration, VRF, chilled water and hot/cold water piping systems.

Standard Specification: ASTM C534 Type I and II 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
	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

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

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

Find us in

MasterSpec® **SpecLink**

a product of The American Institute of Architects





Size Availability - AeroFit™ EPDM Insulating Fitting Covers

Fitting	Thickness Range	ID Range
Elbow - short radius	1/2", 3/4", 1", 1-1/2", 2"	3/8" - 6" IPS
Elbow - long radius	1/2", 3/4", 1", 1-1/2", 2"	3/8" - 6" IPS
Elbow - 45 degree	1/2", 3/4", 1", 1-1/2", 2"	3/8" - 6" IPS
P-Trap	1/2", 3/4", 1", 1-1/2"	5/8" - 2-1/8"
Tee's (Equal Leg)	1/2", 3/4", 1", 1-1/2", 2"	1/2" - 6" IPS
Mechanical Grooved		
Elbow - 90 degree	1/2", 3/4", 1", 1-1/2"	3/4" IPS - 6" IPS
Elbow - 45 degree	1/2", 3/4", 1", 1-1/2"	3/4" IPS - 6" IPS
Tee's	1/2", 3/4", 1", 1-1/2"	3/4" IPS - 6" IPS
Coupling S77	1/2", 3/4", 1"	3/4" IPS - 6" IPS

Installation: All fitting seams must be glued with Aerocel adhesive and wrapped with Protape® for exterior applications!

Lead times (order-to-ship date): Most standard shapes & sizes are stocked or 1-week. Mechanical grooved fittings run 2-3 weeks.

Customization: Special shapes and sizes will be considered based on manufacturing capabilities.

AeroFit™ EPDM Insulating Fitting Covers Insulation R-Values

Pipe Size (in)	IPS (in)					
		1/2 in	3/4 in	1 in	1-1/2 in	2 in
3/8			6.0	9.0	15.8	24.0
1/2	1/4	3.4	5.5	8.3	14.4	21.9
5/8	3/8	3.2	5.2	8.0	13.5	20.6
3/4		3.1	5.0	7.7	13.0	19.7
7/8	1/2	3.2	5.3	7.4	12.9	18.5
11/8	3/4	3.0	5.0	6.9	12.1	17.3
13/8	1"	3.1	5.0	6.5	11.3	16.2
15/8	1-1/4	3.0	4.8	6.3	11.1	15.9
17/8	1-1/2	2.9	4.7	6.0	10.6	15.2
21/8		3.0	4.6	5.9	10.3	14.8
23/8	2	3.0	4.5	5.8	10.0	14.3
25/8		2.9	4.4	5.7	9.8	14.0
27/8	2-1/2	2.9	4.3	5.5	9.5	13.6
31/8		2.9	4.3	5.5	9.4	13.4
31/2	3	3.0	4.2	5.3	9.1	12.9
35/8		3.0	4.2	5.3	9.1	12.9
41/8		2.9	4.1	5.2	8.9	12.5
41/2	4	2.9	4.0	5.1	8.7	12.2
51/2	5	2.8	3.9	5.0	8.4	11.7
65/8	6	2.8	3.9	4.9	8.1	11.3