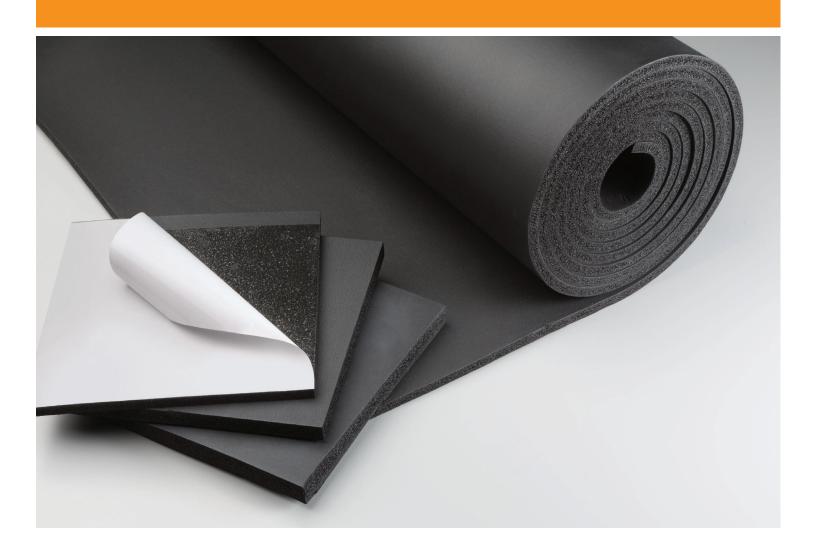


Aerocel ULP

Ultra-Low Perm Sheet & Roll Insulation





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HVAC | Refrigeration | Chilled Water Dual Temperature Systems | Cryogenic

Closed-cell elastomeric foam insulation with exceptionally low water vapor permeability and superior UV resistance. Flexible, lightweight alternative to cellular glass.

Ideal for very humid environments or wherever there is a high risk for condensation formation, including extreme cold water applications, HVAC, refrigeration systems and cryogenics.

Easy to install on large pipes, chillers and tanks.

Proprietary blend of non-polar EPDM-rubber is key to consistent, long-lasting thermal performance and protection against moisture and environmental stresses.

Fast, simple to install

Available with or without pressure sensitive adhesive (PSA) backing

Flexible elastomeric foam - no breakage or fabrication when compared with cellular glass

No gloves or masks required for installation

No protective finish or vapor barrier required*

Superior efficiency and environmental stability

Lower thermal conductively than cellular glass

Ideal for low-temperature systems in hot and humid environments (-320° F to 257°F or -22°F to 248°F with PSA)

Industry's lowest permeability for a closed-cell elastomeric insulation - .01 perm-inch!

UV-resistant without added protection



All-inclusive solutions for insulation systems:



AeroFit™ Pre-fabricated fitting insulators made of closed-cell EPDM rubbe

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



Protape®

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



Aeroflex Adhesives

Specially formulated for bonding of Aerocel insulations.

Safe for indoor environments

GREENGUARD Gold Certified for low chemical emissions (VOCs)

No CFCs, HFCs, HCFCs, PBDEs, formaldehyde, Nitrosamine or fibers

Naturally mold-resistant - no biocides required

Can contribute to LEED® credits

*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 insulation for HVAC, refrigeration and plumbing piping and equipment.

Standard Specification: ASTM C534 Type 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)	ACTM CE10 /C177		
90°F (32°C)	0.250 (0.0360)	ASTM C518 /C177		

Physical and Operational Properties

Test Value/Rating	Test Method		
-320°F/-196°C to +257°F/+125°C -22°F/-30°C to +248°F/+120°C with PSA	ASTM C411 ¹		
Minimal Cracking or color change	ASTM G7		
No cracking	ASTM D1171		
0.01 perm-inch (1.45 x 10-11 g/Pa.s.m)	ASTM E96		
0.2%	ASTM C209		
Class V-O	UL 94		
25/50	ASTM E84		
Pass	NFPA 90A/90B		
Self-extinguishing	ASTM D635		
Non-corrosive	ASTM C692, DIN 1988		
No Growth	ASTM C1318/G21		
No Growth	UL181 Section 13		
Pass	ASTM C534		
Pass	UL181 Section 18		
	-320°F/-196°C to +257°F/+125°C -22°F/-30°C to +248°F/+120°C with PSA Minimal Cracking or color change No cracking 0.01 perm-inch (1.45 x 10-11 g/Pa.s.m) 0.2% Class V-O 25/50 Pass Self-extinguishing Non-corrosive No Growth No Growth Pass		

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

Find us in









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



Aerocel® ULP® Ultra-Low Perm R-Values (Sheet)											
Wall Thickness (in inches)	1/8	1/4	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2	2-1/2
R-value	0.5	1.0	1.6	2.1	2.6	3.1	4.1	5.2	6.1	8.0	10.0

Aerocei® ULP® Ultra-Low Perm R-Values (Roll)											
Wall Thickness (in inches)	1/8	1/4	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2	2-1/2
R-value	0.5	1.0	1.6	2.1	2.6	3.1	4.1	5.2	6.1	8.0	10.0