

Polyethylene Tube Insulation

General

AEROGUARD and Aeroguard® SS Polyethylene Tube Insulation are flexible, closed-cell and lightweight polyethylene polymer products, supplied in dark gray or white colors. Aeroguard® and Aeroguard® SS Polyethylene Tube Insulation are designed for insulating warm or cold piping. Aeroguard® and Aeroguard® SS Polyethylene Tube Insulation are supplied in 3/8", 1/2", 3/4" and 1" thicknesses, in popular I.D. sizes up to 4" IPS, in both semi-slit and self-sealing designs. The self-sealing design has a yellow release liner that is both easy to see and peel. These chemically inert pipe insulations are specially formulated to retard heat gain and their closed-cell structures allow them to function as efficient insulators.

Thermal Conductivity: 0.23

Water Vapor Permeability, Perm-In.: <.05

Fire Rating: ASTM E 84 25/50 or less Flame Spread/
Smoke Developed.

Key Features

- Mold Resistant
- Non Fibrous
- Moisture Resistant
- Efficient Insulator
- Versatile for hot and cold plumbing and air conditioning piping
- Compatible with common types of piping materials – steel, copper, PVC, CPVC, PEX, ABS

Uses

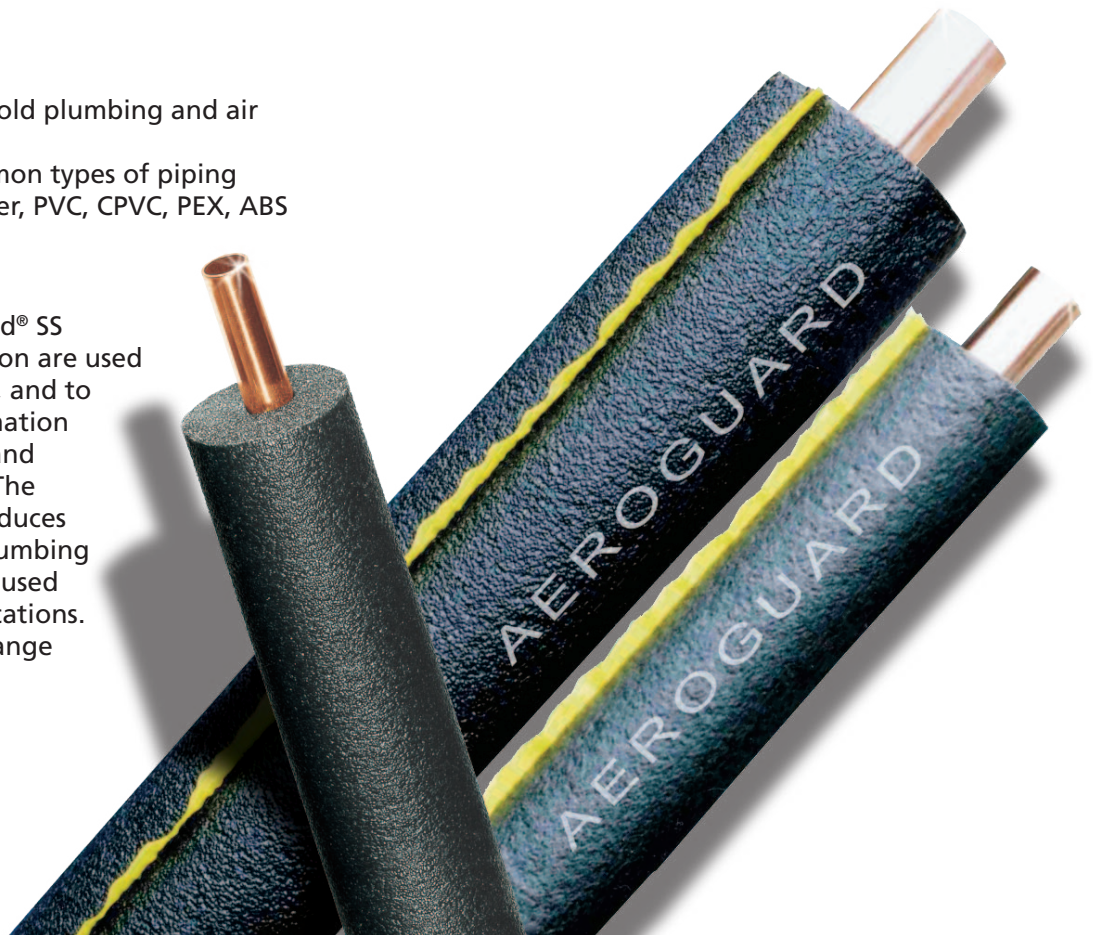
Aeroguard® and Aeroguard® SS Polyethylene Tube Insulation are used to retard heat gain or loss, and to control condensation formation on cold-water plumbing, and HVAC refrigeration lines. The material also efficiently reduces heat flow on hot water plumbing service piping, and can be used in freeze-protection applications. The service temperature range

for Aeroguard® and Aeroguard® SS Polyethylene Tube Insulation is -150°F to +200°F. Aeroguard® and Aeroguard® SS Polyethylene Tube Insulation is designed for installation above and below ground, indoors and outdoors.

Application

Aeroguard®, in semi-slit tubular form, can be slipped onto piping before it is connected, or it can be slit lengthwise and snapped over piping that has already been installed. Longitudinal seams and butt joints are to be sealed with contact adhesive. Fittings can be fabricated from straight tubing.

Aeroguard® SS is pre-slit with a high-performance, factory-applied pressure sensitive adhesive (PSA) on both sides of the longitudinal seam surfaces, with high-visibility yellow release liners for fast installation. Snap the insulation over the piping, pull both release liners, press both sides together, carefully aligning the walls of the insulation as firm pressure is applied to both sides of the seam. All butt joints should be sealed with Aroseal Adhesive.



Aeroguard® and Aeroguard® SS Polyethylene Tube Insulation meet the requirements of International Residential Building Code for Refrigeration Piping and Service Water Piping.

Aeroguard® and Aeroguard® SS Polyethylene Tube Insulation meet the requirements of ASTM C 1427, Type I, Grade 1 - Standard Specification for Extruded Preformed Flexible Cellular Polyolefin Thermal Insulation in Sheet and Tubular Form

AEROGUARD® PERFORMANCE PROPERTIES

Physical Property	Result	Test Method
Use Temperature, Max., °F(°C)	+200° (93°)	ASTM C 411
Use Temperature, Min., °F(°C)	-150° (-101°)	
Thermal Conductivity (k-value), Btu-in./hr-ft ² -°F @ 75°F Mean	.23	ASTM C 177/C 518
Water Vapor Permeability, Perm-In.	< 0.05	ASTM E 96, Procedure A
Water Absorption, % by Volume	< 0.2	ASTM C 209
Linear Shrinkage, % Linear Change	< 7%	ASTM C 1427
Fire Response Properties	Flame Spread – 25 Max. Smoke Developed – 50 Max.	ASTM E 84 CAN/ULC S102.2-M88
Density, Lbs. per Cubic Foot (PCF)	1.5	ASTM D 1622



282 INDUSTRIAL PARK ROAD • SWEETWATER, TN 37874
 TEL: (423) 337-2493 • FAX: (423) 337-7675 • TOLL FREE: (866) AEROCEL
 WEBSITE: www.aeroflexusa.com