

AEROCEL®

Continuous tube for HVAC and refrigeration

General

Aerocel® continuous tube and sheet insulation is a flexible, closed cell and light weight elastomeric material designed for insulating liquid cooling and heating lines. Aerocel® continuous tube is available in 3/8", 1/2" and 3/4" thickness, and popular sizes up to 1 1/8" ID. The closed-cell structure of Aerocel® continuous tube pipe insulation makes it an efficient insulation.

Aerocel® continuous tube is manufactured to consistently provide actual values on these key performance criteria for mechanical system insulation:

Thermal Conductivity: 0.257 K Factor

Water Vapor transmission: 0.10

Fire Rating: Will not contribute significantly to fire (simulated end-use testing).

Aerocel® continuous tube pipe insulation, in 3/8", 1/2" and 3/4" thicknesses has a flame spread rating of 25 or less and a smoke developed rating of 50 or less as tested by ASTM E 84 Surface Burning Characteristics of Building Materials.

Note: Numerical flammability ratings alone may not define performance under actual fire conditions. They are provided only for use in the selection of products to meet limits specified.

Key Features

- Best U/V resistance in its class
- Low thermal conductivity
- Easy to install
- 25/50 rated
- Versatile, for heating, AC, refrigeration, plumbing

Uses

Aerocel® continuous tube pipe insulation is used to retard heat gain and control condensation drip from cold water plumbing, chilled water, and refrigeration lines. It also efficiently reduces heat flow for hot water plumbing and liquid heating and dual temperature piping. The recommended temperature usage range for Aerocel® continuous tube pipe insulation is - 40° to 220° F.

Resistance to Moisture Vapor Flow

The closed-cell structure of Aerocel® continuous tube insulation effectively retards the flow of moisture vapor, and Aerocel® continuous tube is considered a low transmittance vapor retarder protection.



Application

Aerocel® continuous tube pipe insulation in unslit tubular form can be slipped onto piping before it is connected, or it can slit lengthwise and snapped over piping already connected. Butt joints and seams are to be sealed with contact adhesive; therefore, both surfaces to be joined are coated with adhesive.

Specifications

PHYSICAL PROPERTIES*	AEROCEL	TEST METHOD**
CELL STRUCTURE	CLOSED CELL	--
DENSITY LBS/FT ³	4/6 LBS/FT ³	ASTM D 1667
THERMAL CONDUCTIVITY Mean temp	75 °	ASTM C177
BTU in/ft ² hr. °F K-value	0.257	
SERVICE TEMP***	-40°F TO 220°F	
UV WEATHER RESISTANCE	EXCELLENT	ASTM G-23
OZONE RESISTANCE	NO CRACKING	ASTM D 1171
WATER VAPOR PERMEABILITY	0.10 PERM-IN (0.15 X 10-12)	ASTM C355
WATER ABSORPTION (weight %)	0.2	ASTM C 109
FLAMMABILITY,	25/50	ASTM E-84
SMOKE DENSITY	SELF EXTINGUISHING	ASTM D 635
FLEXIBILITY	EXCELLENT	



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