



PipeShield Fiberglas® Pipe Insulation



Description

Owens Corning Fiberglas® Pipe Insulation is now available with a factory applied white polymer facing. PipeShield is ideal for applications requiring a durable and flexible vapor retarder for cold applications and an attractive finish for both hot and cold piping systems.

The base insulation material remains the same Fiberglas® Pipe Insulation used in thousands of commercial and industrial applications. The insulation is molded of heavy density resin bonded inorganic glass fibers. These one-piece, 36" (914mm) long, hinged sections are opened, placed over the pipe, closed and secured with the factory applied sealing strip. This provides positive mechanical and vapor sealing of the longitudinal jacket seam. Available matching pressure sensitive tape

completes the positive closure at the butt joint.

Uses

Insulation for hot or cold piping operating at temperatures from 0°F (-18°C) to 850°F (454°C) in commercial buildings, industrial facilities and process or power plants.

Features and Benefits

Tough, Durable Jacketing

The polymer facing is significantly stronger and more puncture resistant than standard ASJ facing. In many cases, this will obviate the use of PVC or aluminum jacketing in high abuse areas, and can result in significant cost savings. Unlike conventional jacketing made of laminates containing paper, the PipeShield jacket provides no sustenance for mold growth.

Additionally, the glass fibers and binder used in Fiberglas® Pipe Insulation provide no sustenance for mold growth.

Clean, Neat Appearance

The white polymer facing provides a neat, clean appearance. The surface may be periodically cleaned with a damp cloth and common detergents. This provides a finished look, which is important in high visibility areas.

Suitable for Washdown Areas

The PipeShield jacketing is tough

and chemically resistant, which makes the product suitable for food and drug facilities requiring frequent washdown.

Positive Closure System

Effective long-term vapor sealing of both longitudinal and butt joints. With pressure-sensitive lap seal, plus two-part butt strip seal, positive closure is fast, neat and foolproof. No need for staples and mastic, promoting unexcelled jobsite productivity.

Availability

PipeShield is available in thickness and pipe sizes as follows:

Insulation Thickness	Nominal Pipe Sizes
1" to 2"	1/2" to 33"
2 1/2"	2" to 32"
3"	3" to 33"
3 1/2" to 4"	4 1/2" to 24"
4 1/2" to 6"	6" to 24"

Application Recommendations

The hinged sections of PipeShield Pipe Insulation are opened, placed over the pipe, carefully aligned, and sealed. The two part butt strip seal completes the positive closure. Application may be at ambient temperatures from 25°F (-4°C) to 110°F (43°C).

Outdoor applications must be protected from weather.

Physical Property Data

Property	Test Method	Value
Operating temperature range	ASTM C 411	0° to 850°F
Jacket temperature limitation	ASTM C 1263	-20°F to 225°F
Jacket permeance	ASTM E 96	0.15 perm
Jacket impact resistance	ASTM D 1709, method B	> 2.75 Lbf
Jacket tensile strength	ASTM D 882	18,500 psi
Jacket electrical conductance	ASTM D 257	Non-conductor
Composite burning characteristics	ASTM E 84, CAN/ULC-S102	Flame spread <25 Smoke developed <50
Fungi resistance	ASTM C 1338	Meets requirements
Corrosion resistance	ASTM C 665	Meets requirements

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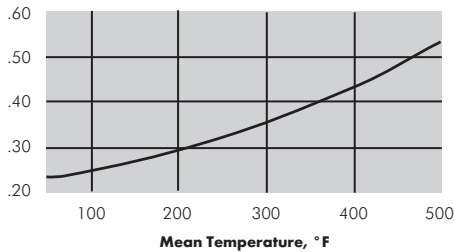
Specification Compliance

- ASTM C 547 Mineral Fiber Pipe Insulation, (Type I, Grade A)
- ASTM C 585 Inner and Outer Diameters of Rigid Thermal Insulation for Pipe and Tubing, (Type I, Grade A)
- ASTM C 795 Thermal Insulation for use over Austenitic Stainless Steel*
- MIL – I – 22344D Insulation, Pipe, Thermal, Fibrous Glass
- New York City MEA No. 349-02-M

*Pre-production testing complete and on file. Chemical analysis of each production lot required for total conformance.

Thermal Conductivity

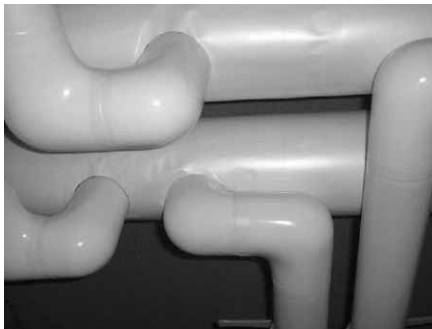
k, Btu • in/(hr • ft² • °F)



Apparent thermal conductivity curve determined in accordance with ASTM Practice C 1045 with data obtained by ASTM Test Method C 335. Values are nominal, subject to normal testing and manufacturing tolerances.

Thermal Conductivity

Mean Temperature °F	Conductivity, Btu • in/(hr • ft ² • °F)	Mean Temperature, °C	Conductivity W/m • °C
50	.22	10	.032
75	.23	25	.034
100	.24	50	.037
150	.27	100	.043
200	.29	125	.047
250	.32	150	.051
300	.35	175	.056
350	.39	200	.062
400	.43	225	.068
450	.48	250	.075
500	.54	275	.082



Chemical Resistance of Jacket

Acids	Good to Excellent
Strong Oxidizing Agents	Good to Excellent
Alkalis	Fair to Good
Hydrocarbon Solvents	Good to Excellent
Alcohols	Good to Excellent
Fats, Grease & Oil	Good to Excellent



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