



No-Wrap Fiberglas™ Pipe Insulation

Fiberglass Insulation



Description

Owens Corning® No-Wrap Fiberglas™ Pipe Insulation is molded of heavy density resin bonded inorganic glass fibers that come in one-piece, 36" (914mm) long, hinged sections. The insulation is tailored to fit for copper, iron, PVC, and other polymer pipe applications.

Features

- Insulation is tailored to fit with:
 - a flexible core to compress over copper and some small-bore iron, PVC and polymer pipes and fittings, saving time by eliminating the need to fillet
 - a rigid core for fast and easy fabrication on larger pipes
- The product has a maximum operating temperature of 1,000°F (538°C) (with heat-up schedule)
- The product does not contain Polybromodiphenyl ethers (PBDE) (penta-, octa-, or deca-brominated diphenyl)
- UL Labeled for Flame Spread Index of 0 or less and Smoke Developed Index of 0 and is fully building code compliant

Physical Properties

Property	Test Method	Value
Density (size dependent)	ASTM C302	3.5 to 5.5 pcf
Operating Temperature Range ¹	ASTM C411	0°F to 1,000°F (-18°C to 538°C)
Water Vapor Sorption	ASTM C1104	Less than 5% by weight
Corrosion	ASTM C665	Pass – steel, copper, and aluminum
Corrosion	ASTM C1617	Pass - steel
Surface Burning Characteristics ²	UL 723, ASTM E84 or CAN/ULC-S102	Flame Spread 0 Smoke Developed 0

1. With heat-up schedule when operating temperatures between 850°F and 1,000°F.

2. The surface burning characteristics of these products have been determined in accordance with UL 723, ASTM E84 or CAN/ULC-S102. Values are reported to the nearest 5 rating.

Applications

- Used to insulate iron, copper, PVC and other polymer pipes with operating temperatures between 0°F (-18°C) to 1,000°F (538°C) in commercial & institutional buildings, and industrial facilities
- When temperatures are above 650°F (454°C), maximum installed insulation thickness shall be no greater than 6" as a single layer or nested
- Rated per ASTM C547, Type I, Grade A - Pipe insulation can be installed on in-service/hot pipes with an operating temperature up to 850°F (454°C)
- Rated per ASTM C547, Type IV, Grade B - When operating temperatures will be between 850°F (454°C) to a 1,000°F (538°C) a heat-up schedule needs to be followed per the Installation Instructions, Pub No. 10021355
- When installed outdoors, an additional weather-protective jacket is required
- No-Wrap is intended for field installation with jacketing appropriate to the vapor control, damage, or corrosion resistance requirements of the application

Standards, Codes Compliance

- ASTM C547, Mineral Fiber Pipe Insulation: Type I, Grade A; and Type IV, Grade B
- ASTM C585, Inner and Outer Diameters of Thermal Insulation for Nominal Sizes of Pipe and Tubing
- NFPA 90A and 90B
- ASTM C795, Thermal Insulation for Use in Contact with Austenitic Stainless Steel³
- Nuclear Regulatory Commission Guide 1.36, Non-Metallic Thermal Insulation³
- MIL-PRF-22344E, Insulation, Pipe, Thermal, Fibrous Glass
- MIL-DTL-32586, Insulation, Thermal and Acoustic, Fibrous Glass; Type I; Form 4; Facing A
- MIL-DTL-24244D (Ships) Insulation Material with Special Corrosion, Chloride, and Fluoride Requirements³
- US Coast Guard 164.109/70/0 Non-Combustible
- NFPA 90A and 90B

3. Preproduction qualification testing complete and on file. Chemical analysis of each production lot required for total conformance. Certification needs to be specified at time of order.

Thermal Conductivity

Mean Temperature °F	k Btu·in/hr·ft ² ·°F	Mean Temperature °C	λ W/m·°C
50	0.22	10	0.032
75	0.23	25	0.034
100	0.24	50	0.037
150	0.27	100	0.043
200	0.29	125	0.047
250	0.32	150	0.051
300	0.35	175	0.056
350	0.39	200	0.062
400	0.43	225	0.068
450	0.48	250	0.075
500	0.54	275	0.082

Apparent thermal conductivity values determined in accordance with ASTM practice C1045 with data obtained by ASTM Test Method C335. Values are nominal, subject to normal testing and manufacturing tolerances.

Thickness to Prevent Surface Condensation

Owens Corning® No-Wrap up to 16" NPS (400mm DN), with field applied jacket ^{4,5}

Ambient Temperature °F	Relative Humidity (°C)	System Operating Temperatures						
		35°F	(2°C)	45°F	(7°C)	55°F	(13°C)	
110	(43)	70%	1	(25)	1	(25)	1	(25)
		80%	1½	(38)	1½	(38)	1½	(38)
		90%	3½	(89)	3½	(89)	3	(76)
100	(38)	70%	1	(25)	1	(25)	1	(25)
		80%	1½	(38)	1 ½	(38)	1	(25)
		90%	3½	(89)	3	(76)	2½	(64)
90	(32)	70%	1	(25)	1	(25)	1	(25)
		80%	1½	(38)	1	(25)	1	(25)
		90%	3½	(89)	3	(76)	2½	(64)
80	(27)	80%	1½	(38)	1	(25)	1	(25)
		90%	3	(76)	2½	(64)	2	(51)
		90%	2½	(64)	2	(51)	1	(25)

4. Calculations estimated using NAIMA 3E Plus version 4.0 software. Fixed design conditions: Steel Horizontal Piping, 16" NPS, 0 mph wind speed, Outer Surface Jacket Emissance of 0.9.

5. Thermal conductivity values used in these calculations are subject to normal manufacturing tolerances.

Certifications and Sustainable Features

- Certified by SCS Global Services to contain an average of 53% recycled glass content, 31% pre-consumer and 22% post-consumer
- Environmental Product Declaration (EPD) has been certified by UL Environment
- Material Health Certificate from Cradle to Cradle Products Innovation Institute



AVERAGE 53% RECYCLED CONTENT
31% PRE-CONSUMER
22% POST-CONSUMER

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SCS Global Services provides independent verification of recycled content in building materials and verifies recycled content claims made by manufacturers. For more information, visit www.SCSglobalservices.com.

LEED® is a registered trademark of the U.S. Green Building Council.

Availability

Our Fiberglas™ Pipe Insulation portfolio is available in thicknesses up to 5" with inside diameters of up to 36". Contact your local Owens Corning Area Sales Manager for product availability.

Refer to Fiberglas™ Pipe Insulation Sizing Manual for more information: Pub No. 10018078.

Installation

Ambient application temperatures are from 25°F (-4°C) to 110°F (43°C).

For complete installation instructions and recommendations see "Fiberglas™ Pipe Insulation Installation Instructions" (Pub. No. 10021355).

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at www.owenscorning.com.



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