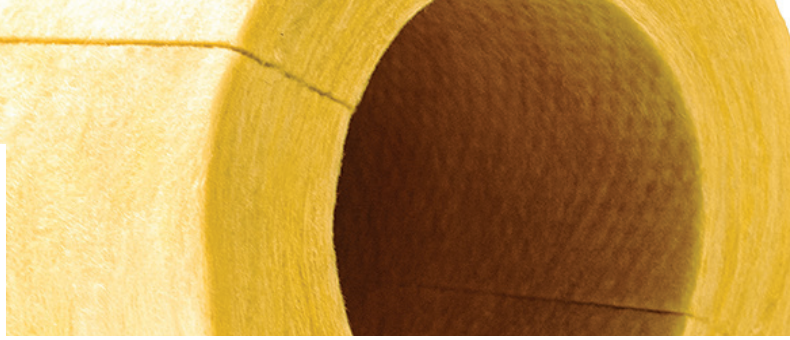

NO-WRAP FIBERGLAS™ PIPE INSULATION
FIBERGLASS INSULATION

Owens Corning® No-Wrap Fiberglas™ pipe insulation is molded of heavy-density resin-bonded inorganic glass fibers that come in one-piece, 36-inch-long (914 mm), 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: Flex Core 850°F (454°C); Rigid Core 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

Standards, Codes Compliance

- ASTM C547, Mineral Fiber Pipe Insulation:
  - Flex Core Type I, Grade A
  - Rigid Core 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 Steel[1]
- Nuclear Regulatory Commission Guide 1.36, Non-Metallic Thermal Insulation[1]
- MIL-PRF-22344E, Insulation, Pipe, Thermal, Fibrous Glass
- MIL-DTL-32585, Insulation, Thermal and Acoustic, Fibrous Glass; Type I; Form 4; Facing A
- MIL-DTL-24244D (Ships) Insulation Material with Special Corrosion, Chloride, and Fluoride Requirements[1]
- U.S. Coast Guard 164.109/70/0 Non-Combustible
- NFPA 90A and 90B

1 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.

Physical Properties

PROPERTY	TEST METHOD	VALUE
Density (size dependent)	ASTM C302	3.5 to 5.5 pcf
Operating Temperature Range	ASTM C411	Flex Core — 0°F to 850°F (-18°C to 454°C) Rigid Core[3] — 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

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.
3 With heat-up schedule when operating temperatures between 850ºF and 1,000ºF.

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 inches as a single layer or nested
- Flex Core — 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)
- Rigid Core — Rated per ASTM C547, Type IV, Grade B — When operating temperatures will be between 850°F (454°C) and 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

Thermal Conductivity

MEAN TEMPERATURE °F	k Btu•in/hr•ft²•°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® ASJ Max Jacket for up to 16 inches NPS (400 mm DN)[3,4]

AMBIENT TEMPERATURE		RELATIVE HUMIDITY	SYSTEM OPERATING TEMPERATURES					
°F	°C		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)	1½	(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)
70	(21)	80%	1	(25)	1	(25)	1	(25)
		90%	2½	(64)	2	(51)	1	(25)

3 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 Emittance of 0.9.
4 Thermal conductivity values used in these calculations are subject to normal manufacturing tolerances.

Availability

Our Fiberglas™ pipe insulation portfolio is available in thicknesses up to 5 inches with inside diameters of up to 36 inches. 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.

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
- Health Product Declaration (HPD)

Disclaimer of Liability
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Notes
For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via http://sds.owenscorning.com.

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