



SSL II[®] WITH ASJ MAX FIBERGLAS[™] PIPE INSULATION FIBERGLASS INSULATION



Physical Properties

PROPERTY	TEST METHOD	VALUE
Density (size dependent)	ASTM C302	3.5 to 5.5 pcf
Operating Temperature Range ²	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
Jacket Temperature Limitation	ASTM C1136	-20°F to 150°F (-29°C to 66°C)
Jacket Permeance	ASTM E96, Proc. A	0.01 perm
Burst Strength, min	ASTM D774/D774M	100 psi
Composite Surface Burning Characteristics ³	UL 723, ASTM E84 or CAN/ULC-S201	Flame Spread 25 Smoke Developed 50

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

3. 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.

Description

Owens Corning[®] SSL II[®] with ASJ Max 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 and iron pipe applications.

Features

- ASJ Max is an all-service-jacket with a polymer film exterior surface that is smooth, durable, cleanable, wrinkle-resistant, resists water staining and doesn't support mold or mildew growth¹
- ASJ Max can resist short durations of water exposure that may occur during construction
- SSL II[®] Positive Closure System is an advanced double adhesion that fastens and installs with no need for staples or mastic
- Insulation is tailored to fit with:
 - FlexCore technology to compress over copper and some small-bore iron pipes and fittings, saving time by eliminating the need to fillet
 - RigidCore technology 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)

1. ASJ Max jacket does not support mold growth as tested in accordance with ASTM C1338.

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
- ASTM C1136, Flexible Low Permeance Vapor Retarders for Thermal Insulation: Types I, II, III, IV, X
- UL Labeled for Flame Spread Index of 25 or less and Smoke Developed Index of 50 and is fully building code compliant
- UL Listed and Labeled for use over PVC and other polymer pipes UL Category BSMP
- ASTM C795, Thermal Insulation for Use in Contact with Austenitic Stainless Steel⁴
- Nuclear Regulatory Commission Guide 1.36, Non-Metallic Thermal Insulation⁴
- MIL-PRF-22344E, Insulation, Pipe, Thermal, Fibrous Glass
- MIL-DTL-32585, Type I, Form 4, Facing A
- MIL-DTL-24244D (Ships) Insulation Material with Special Corrosion, Chloride, and Fluoride Requirements⁴
- NFPA 90A and 90B

4. 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.

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

Thermal Conductivity

MEAN TEMP °F	K BTU·IN/HR·FT ² ·°F	MEAN TEMP °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" NPS (400mm DN), in. (mm)^{5,6}

AMBIENT TEMP		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%	1 1/2	(38)	1 1/2	(38)	1 1/2	(38)
		90%	3 1/2	(89)	3 1/2	(89)	3	(76)
100	(38)	70%	1	(25)	1	(25)	1	(25)
		80%	1 1/2	(38)	1 1/2	(38)	1	(25)
		90%	3 1/2	(89)	3	(76)	2 1/2	(64)
90	(32)	70%	1	(25)	1	(25)	1	(25)
		80%	1 1/2	(38)	1	(25)	1	(25)
		90%	3 1/2	(89)	3	(76)	2 1/2	(64)
80	(27)	80%	1 1/2	(38)	1	(25)	1	(25)
		90%	3	(76)	2 1/2	(64)	2	(51)
		90%	1	(25)	1	(25)	1	(25)
70	(21)	80%	1	(25)	1	(25)	1	(25)
		90%	2 1/2	(64)	2	(51)	1	(25)

⁵Calculations 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.

⁶Thermal 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". Contact your local Owens Corning Area Sales Manager for product availability.

Refer to 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
- For faced products: GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg
- Environmental Product Declaration (EPD) has been certified by UL Environment
- Material Health Certificate from Cradle to Cradle Products Innovation Institute or Health Product Declarations available



Disclaimer of Liability

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Owens Corning makes no representation about, and is not responsible or liable for the accuracy or reliability of data associated with particular uses of any product described herein. 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.



OWENS CORNING INSULATING SYSTEMS, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO, USA 43659

1-800-GET-PINK®
www.owenscorning.com

Pub. No. 20547-Z. Printed in U.S.A. June 2019.
© 2019 Owens Corning. All Rights Reserved.