



Product Data Sheet



Availability

Thickness		Recommended Pipe Size NPS in. (DN, mm)	Roll Length	
in.	(mm)		ft.	(m)
1	(25)	10 (250) & up	42	(12.8)
1½	(38)	10 (250) & up	27	(8.2)
2	(51)	10 (250) & up	20	(6.1)
2½	(64)	14 (350) & up	26	(7.9)
3	(76)	17 (425) & up	21	(6.4)
3½	(89)	20 (500) & up	18	(5.5)
4	(102)	23 (575) & up	16	(4.9)

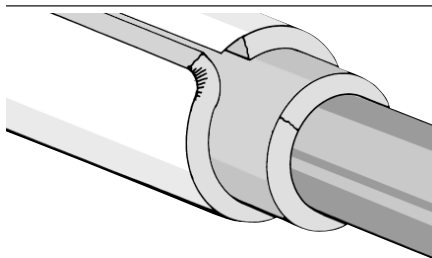
Description

Fiberglas™ Pipe and Tank Insulation is made of semi-rigid fibrous glass board material, factory-jacketed with a laminated kraft-aluminum foil ASJ facing. The insulation is adhered with the end grain perpendicular to the jacket. This provides a flexible product that is easily wrapped around pipes, tanks or vessels, while providing good rigidity and abuse resistance.

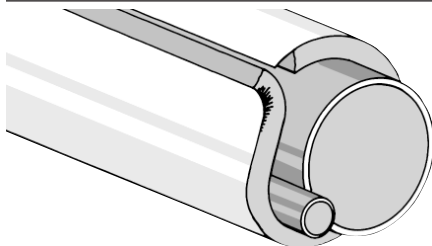
Key Features

- High compressive strength with a vertical fiber orientation makes this the strongest, most abuse-resistant Fiberglas™ Pipe Insulation product available.
- ASJ Vapor Retarder Jacket matches the jacket of Fiberglas™ Pipe Insulation for uniformly good appearance in mechanical rooms.
- Fits all pipes and equipment of 10" NPS (250mm DN) and larger, eliminating the need to stock as many as 60 different pipe insulation thickness and diameter variations.

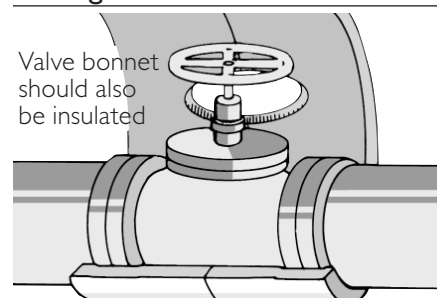
Re-Insulation



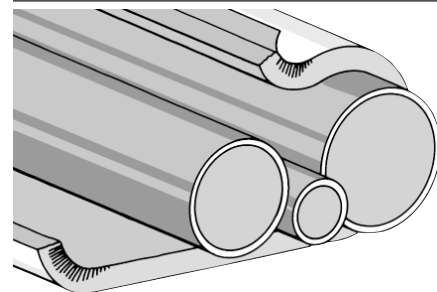
Steam Tracing



Fittings And Valves



Groups of Parallel Pipes



Product Applications

Applied to pipes, tanks and vessels 10" NPS (250mm DN) and larger. Fiberglas™ Pipe and Tank Insulation can also be used to insulate pipe flanges, valves, groups of parallel pipes, and pipes with heat tracing lines. It may be applied over existing insulation to increase thickness and satisfy demands for increased energy conservation in already-operating systems.

Measure the length of insulation required according to the fabrication guide located on the

carton. Cut completely through the insulation and jacket. Use a flap tool to filet a stapling flange on one end of the insulation.

Each 36" (914mm) section of insulation may be secured around the pipe using outward clenching staples and mastic, or by applying outward clenching staples and pressure sensitive vapor retarder tape. Special care must be taken to vapor seal systems operating below ambient temperatures. Adjacent sections must be tightly butted together, then sealed with vapor retarder tape.



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If indoor applications will be painted, use only a water base latex paint. Outdoor applications require protection against weather.

Standards, Codes Compliance

- ASTM CI393 "Standard Specification for Perpendicularly Oriented Mineral Fiber Roll and Sheet Thermal Insulation for Pipes and Tanks"; Types I, II IIIA, IIIB; Category 2
- ASTM C795, Thermal Insulation for Use Over Austenitic Stainless Steel¹
- ASTM CI136, Flexible Low Permeance Vapor Retarders for Thermal Insulation, Types I and II
- Mil. Spec. MIL-I-24244C, Insulation Materials, Special Requirements, Type XVIh¹
- Nuclear Regulatory Commission Guide 1.36, Non-Metallic Thermal Insulation³
- Meets fire retardant decabrominated diphenyl ether (decaBDE)

Physical Property Data

Property	Test Method	Value
Pipe or equipment operating temperature range ¹	ASTM C411	0 to 650°F (-18°C to 343°C)
Insulation jacket temperature limitation	ASTM CI136	-20°F to 150°F (-29°C to 66°C)
Jacket Permeance	ASTM E96, Proc. A	0.02 perm
Burst Strength, min.	ASTM D774/D774M	55 psi
Compressive Strength at 10% Deformation	ASTM CI65	125 lb/ft ² (5985 Pa) minimum
Surface Burning Characteristics ²	ASTM E84	
Flame Spread		25
Smoke Developed		50

1. Limited to single layer application.
2. The surface burning characteristics of these products have been determined in accordance with ASTM E84. This standard should be used to measure and describe the properties of materials, products or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

Certifications and Sustainable Features of Fiberglas™ Pipe and Tank Insulation

- Certified by Scientific Certification Systems to contain a minimum of 57% recycled glass content

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 <http://sustainability.owenscorning.com>.

3. Preproduction qualification testing complete and on file. Chemical analysis of each production lot required for total conformance.



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Thermal Performance

ASTM C680

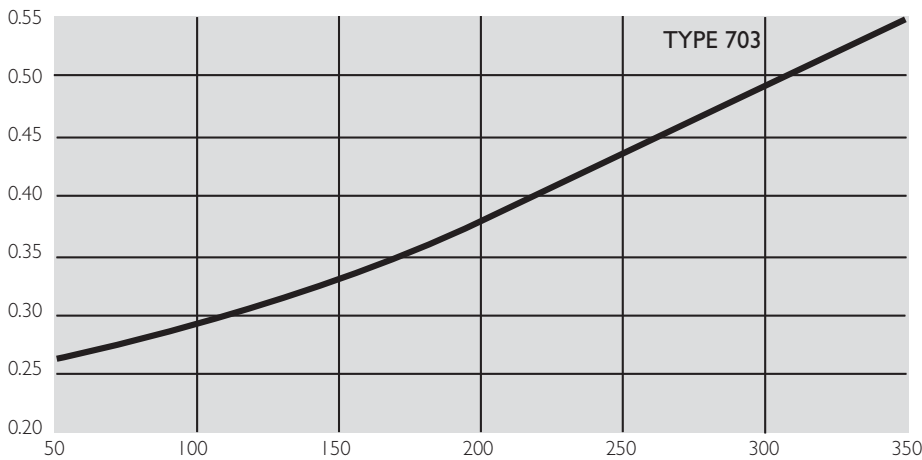
Insulation		Pipe Operating Temperature, °F (°C)							
NPS x Thk. in.	(DN x Thk. mm)	300 (149)		450 (232)		600 (316)			
		HL	ST	HL	ST	HL	ST		
12 x 1	(300 x 25)	251	(241)	121	(49)				
18 x 1	(450 x 25)	345	(332)	122	(50)				
24 x 1	(600 x 25)	453	(436)	123	(51)				
30 x 1	(750 x 25)	561	(539)	123	(51)				
12 x 2	(300 x 51)			292	(281)	122	(50)		
18 x 2	(400 x 51)			414	(398)	126	(52)		
24 x 2	(600 x 51)			539	(518)	127	(53)		
30 x 2	(750 x 51)			663	(637)	127	(53)		
12 x 3	(300 x 76)					370	(356)	127	(53)
18 x 3½	(450 x 89)					449	(432)	124	(51)
24 x 3½	(600 x 89)					576	(554)	125	(52)
30 x 3½	(750 x 89)					702	(675)	126	(52)

Heat Loss (HL), Btu/hr•ft (W/m); Surface Temperature (ST), °F (°C).
Design Conditions: Horizontal piping, 80°F (27°C) average ambient temperature, 0 mph wind speed, ASJ jacket.

Thermal Conductivity

Mean Temperature, °F

k, Btu•in/hr•ft²•F



Mean Temp. °F	k Btu•in/hr•ft ² •F	Mean Temp. °C	λ W/m•°C
50	0.26	10	0.037
75	0.27	25	0.040
100	0.29	50	0.045
150	0.33	75	0.050
200	0.38	100	0.056
250	0.43	125	0.063
300	0.49	150	0.070
350	0.55	175	0.078

Apparent thermal conductivity curve determined in accordance with ASTM Practice C1045 with data obtained by ASTM Test Method C177. Values are nominal, subject to normal testing and manufacturing tolerances.



Fiberglas™ Pipe and Tank Insulation

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MINIMUM 57% RECYCLED CONTENT
5% POST-CONSUMER
52% PRE-CONSUMER

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