



Fiberglas™ FLEXWRAP® ASJ



Description

Fiberglas™ FLEXWRAP® ASJ is a flexible insulation product made from fiberglass blanket bonded together with a thermosetting resin. The fibers are oriented to provide good compressive strength while providing flexibility during installation. FLEXWRAP® ASJ is suitable for operating temperatures up to 850°F (454°C). Available only with ASJ facing.

Physical Properties

Property	Test Method	Value
Max Use Temperature	ASTM C411	850°F (454°C)
Density	ASTM C303	2.5 pcf (40 kg/m ³)
Compressive Resistance	ASTM C165	25 psf (1200 Pa)
Corrosiveness	ASTM C665	Meets requirements
Fungi Resistance	ASTM C1338	Meets requirements
Facing Temperature Limit	ASTM C1136	150°F (66°C)
Water Vapor Permeance (Facing)	ASTM E96	0.02 perm
Surface Burning Characteristics	ASTM E84	
Flame Spread		25
Smoke Developed		50

1. 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.

Features

- A cost effective alternative to larger sized pre-formed pipe insulation.
- Fits all pipes and equipment of 10" NPS and larger which reduces inventory requirement caused by multiple diameter requirements.
- The continuous blanket of material easily wraps tanks, pipes, and irregular shaped objects without the efficiency losses related to strip delamination of fabricated and segmented wrap.
- Low thermal conductivity compared to segmented products which means less thickness is required for equivalent heat flow.

Availability

Thickness		Width		Length		Minimum Wrap Diameter (NPS)	
in.	(mm)	in.	(mm)	ft.	(m)		
1.5"	(38)	48"	(1,219)	30'	(9.14)	8"	(203)
2"	(51)	48"	(1,219)	26'	(7.92)	10"	(254)
2.5"	(64)	48"	(1,219)	20'	(6.10)	12"	(305)
3"	(76)	48"	(1,219)	18'	(5.48)	16"	(406)

Note: FLEXWRAP® ASJ is available in rolls 48" in width and thicknesses from 1½" to 3". Standard roll lengths are given in the table above.

Thermal Conductivity

Mean Temperature °F	k Btu·in/hr·ft ² ·°F	Mean Temperature °C	λ W/m·°C
75	0.24	25	0.035
100	0.25	50	0.038
200	0.32	100	0.047
300	0.40	150	0.057
400	0.48	200	0.069
500	0.58	250	0.081

Applications

Fiberglas™ FLEXWRAP® ASJ is used to insulate either hot or cold surfaces of pipes, tanks, storage vessels, ducts, and similar round or irregular shaped surfaces. All joints and facing penetrations must be sealed with appropriate pressure sensitive tape or vapor retarder mastic when the application requires a vapor seal. The product is intended for indoor use and should be weather protected for use outdoors.

Installation

When determining the length required, simply determine the circumference of the piece being insulated and remember to add twice the thickness of the FLEXWRAP® ASJ when calculating the diameter. If a lap is desired, add 3-4" of length and remove the additional insulation to form the lap. Take care to not cut the facing when removing the lap portion of the insulation. The FLEXWRAP® ASJ is installed around the surface to be insulated, secured and either outward clenching stapled or taped. If necessary, a vapor retarder mastic is applied. Adjacent sections should be butted together and sealed with tape. Use of bands or impalement pins for securement purposes are permitted but should be sealed as necessary with mastic.

Standards, Codes Compliance

- ASTM C1393 "Standard Specification for Perpendicularly Oriented Mineral Fiber Roll and Sheet Thermal Insulation for Pipes and Tanks"; Types I, II IIIA, IIIB; Category 2
- Does not contain the fire retardant decabrominated diphenyl ether (decaBDE)

Stretch-Out Requirements

The following table may be used to estimate stretch-out lengths for various standard pipe sizes.

NPS	Pipe OD in.	FLEXWRAP® Pipe and Tank Wrap Thickness							
		1.5" in.	(38mm) mm	2" in.	(51mm) mm	2.5" in.	(64mm) mm	3" in.	(76mm) mm
6	6.6								
8	8.6	36.5	928						
10	10.8	43.5	1,104	46.6	1,184				
12	12.8	49.7	1,263	52.9	1,343	56.0	1,423		
14	14	53.5	1,359	56.6	1,439	59.8	1,519		
16	16	59.8	1,519	62.9	1,598	66.1	1,678	69.2	1,758
18	18	66.1	1,678	69.2	1,758	72.4	1,838	75.5	1,917
20	20	72.3	1,838	75.5	1,917	78.6	1,997	81.8	2,077
22	22	78.6	1,997	81.8	2,077	84.9	2,157	88.0	2,236
24	24	84.9	2,157	88.1	2,236	91.2	2,316	94.3	2,396
26	26	91.2	2,316	94.3	2,396	97.5	2,476	100.6	2,555
28	28	97.5	2,476	100.6	2,555	103.7	2,635	106.9	2,715
30	30	103.7	2,635	106.9	2,715	110.0	2,795	113.2	2,874
32	32	110.0	2,795	113.2	2,874	116.3	2,954	119.5	3,034
34	34	116.3	2,954	119.4	3,034	122.6	3,114	125.7	3,193
36	36	122.6	3,114	125.7	3,193	128.9	3,273	132.0	3,353

Note: Lengths provided in table do not include a staple flap. Add 3-4 inches of length if a staple flap is desired.

Environmental and Sustainability

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