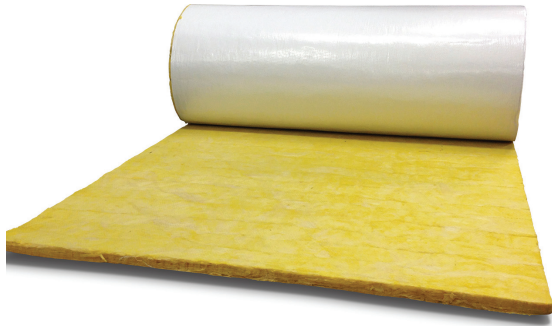




FIBERGLAS™ FLEXWRAP®

FIBERGLASS INSULATION



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 ¹ | ASTM E84 | Flame Spread 25 Smoke Developed 50 |

1. The surface burning characteristics of these products have been determined in accordance with ASTM E84. Values are reported to the nearest 5 rating.

Description

Fiberglas™ FLEXWRAP® 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® insulation is suitable for operating temperatures up to 850°F (454°C). Available in ASJ or FRK facings.

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)

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 | |
|-----------|------|-------|---------|--------|--------|----------------|-------|
| IN. | (MM) | IN. | (MM) | FT. | (M) | DIAMETER (NPS) | |
| 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® is available in rolls 48" in width and thicknesses from 11/2" to 3". Standard roll lengths are given in the table above.

Stretch-Out Requirements

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

FLEXWRAP® PIPE AND TANK WRAP THICKNESS

| NPS | PIPE OD IN. | 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.

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® insulation 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® insulation 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® insulation 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.

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
- For unfaced products only: Material Health Certificate from Cradle to Cradle Products Innovation Institute
- Health Product Declaration® (HPD)



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OWENS CORNING INSULATING SYSTEMS, LLC

ONE OWENS CORNING PARKWAY
TOLEDO, OHIO, USA 43659

1-800-GET-PINK®
www.owenscorning.com

Pub. No. 10018355-E. Printed in U.S.A. December 2019.
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