

## DATA SHEET

# KwikFlex® Pipe & Tank Insulation

with ECOSE® Technology



### DESCRIPTION

KwikFlex Pipe and Tank Insulation is a 48" wide semi-rigid fiberglass blanket in roll form. It is available faced with a factory-applied ASJ, FSK or PSK vapor retarder jacket. The fiberglass orientation provides excellent compressive strength while maintaining flexibility for ease of installation.

### APPLICATION

- Tanks, vessels and large-diameter (greater than 10") pipes
- Any curved or irregular surfaces that require finished characteristics of rigid fiberglass insulation

### SPECIFICATION COMPLIANCE

- UL/ULC Classified (ASJ and FSK only)
- ASTM C1393; Types I, II, IIIA, IIIB Category 2

### INSTALLATION GUIDELINES

- Refer to the Stretch-Out Chart to find the appropriate length to cut for the specific pipe size. Be sure to add an additional 2" (51 mm) to 4" (102 mm) for your staple flap.
- Cut your stretch-out length and wrap the material around the pipe or vessel to ensure the proper fit.
- Staple the lap on 3" (76 mm) centers with outward clinching staples.
- Butt edges shall be firmly secured, and butt strips matching the jacket shall be applied at each joint.

CONTRACTOR: \_\_\_\_\_  
JOB: \_\_\_\_\_  
DATE: \_\_\_\_\_

### DOING MORE FOR THE WORLD WE LIVE IN.

All of our products are made from sustainable resources, such as recycled glass and sand. And we're proud to be putting glass bottles back to work rather than into landfills. Our products are made with a minimum of 50% recycled glass—totaling an average of 26 million bottles each month.

FORMS AVAILABLE		
Thickness	Width <sup>†</sup>	Length
1" (25 mm)	48" (1,219 mm)	52' (15.85 m)
1½" (38 mm)		30' (9.14 m)
2" (51 mm)		26' (7.92 m)
2½" (64 mm)		21' (6.40 m)
3" (76 mm)		18' (5.48 m)

<sup>†</sup>Cut-to-length sizes also available.

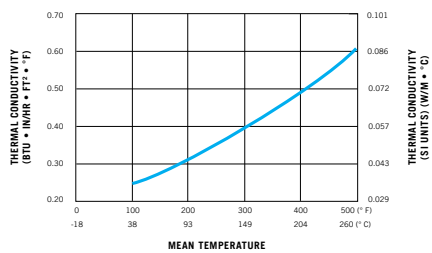
TECHNICAL DATA		
Property (Unit)	Test	Performance
Corrosiveness	ASTM C665	Does not accelerate corrosion of steel
Corrosion	ASTM C1617	Pass
Maximum Service Temperature	ASTM C411	850° F (454° C)
Water Vapor Permeance	ASTM E96, Procedure A	0.02 perms or less (FSK, ASJ, PSK facings)
Puncture Resistance	TAPPI Test T803, Beach Units	FSK and PSK facings: 25, ASJ facing: 50
Compressive Strength	ASTM C165	Not less than 25 PSF (1.2 kPa) at 10% deformation
Shrinkage	ASTM C356	Negligible
Mold Growth	ASTM C1338	Pass
Surface Burning Characteristics (flame spread/smoke developed)	UL 723, ASTM E84 (PSK facing)	UL/ULC Classified FHC 25/50: FSK & ASJ+, 25/20: PSK

## STRETCH-OUTS\*

Nominal Iron Pipe Size	Iron Pipe Outside Diameter	Thickness			
		1" (25 mm)	1½" (38 mm)	2" (51 mm)	3" (76 mm)
10" (254 mm)	10¾" (273 mm)	40½" (1,019 mm)	43¼" (1,099 mm)	46⅝" (1,178 mm)	52⅝" (1,337 mm)
12" (305 mm)	12¾" (324 mm)	46⅝" (1,178 mm)	49½" (1,257 mm)	52¾" (1,340 mm)	59" (1,499 mm)
14" (356 mm)	14" (356 mm)	50⅝" (1,280 mm)	53½" (1,359 mm)	56⅝" (1,438 mm)	62⅝" (1,597 mm)
16" (406 mm)	16" (406 mm)	56⅝" (1,438 mm)	59¾" (1,518 mm)	62⅝" (1,597 mm)	69⅝" (1,756 mm)
18" (457 mm)	18" (457 mm)	62⅝" (1,597 mm)	66" (1,676 mm)	69¼" (1,756 mm)	75½" (1,918 mm)
20" (508 mm)	20" (508 mm)	69⅝" (1,756 mm)	72⅝" (1,838 mm)	75½" (1,918 mm)	81¾" (2,076 mm)
22" (559 mm)	22" (559 mm)	75½" (1,918 mm)	78⅝" (1,997 mm)	81¾" (2,076 mm)	88" (2,235 mm)
24" (610 mm)	24" (610 mm)	81¾" (2,076 mm)	84⅝" (2,156 mm)	88" (2,235 mm)	94⅝" (2,397 mm)
26" (660 mm)	26" (660 mm)	88" (2,235 mm)	91⅝" (2,315 mm)	94⅝" (2,397 mm)	100⅝" (2,556 mm)
28" (711 mm)	28" (711 mm)	94⅝" (2,397 mm)	97½" (2,477 mm)	100⅝" (2,556 mm)	106⅝" (2,715 mm)
30" (762 mm)	30" (762 mm)	100⅝" (2,556 mm)	103¾" (2,635 mm)	106⅝" (2,715 mm)	113⅝" (2,873 mm)
32" (813 mm)	32" (813 mm)	106⅝" (2,715 mm)	110" (2,794 mm)	113⅝" (2,873 mm)	119½" (3,035 mm)
34" (864 mm)	34" (864 mm)	113⅝" (2,873 mm)	116¼" (2,953 mm)	119½" (3,035 mm)	125¾" (3,194 mm)
36" (914 mm)	36" (914 mm)	119½" (3,035 mm)	122⅝" (3,115 mm)	125¾" (3,194 mm)	132" (3,353 mm)
38" (965 mm)	38" (965 mm)	125¾" (3,194 mm)	128⅝" (3,273 mm)	132" (3,353 mm)	138¼" (3,512 mm)
40" (1016 mm)	40" (1,016 mm)	132" (3,353 mm)	135⅝" (3,432 mm)	138¼" (3,512 mm)	144⅝" (3,673 mm)
42" (1067 mm)	42" (1,067 mm)	138¼" (3,512 mm)	141½" (3,594 mm)	144⅝" (3,673 mm)	150⅝" (3,832 mm)

\*Additional 2" (51 mm) to 4" (102 mm) should be added for staple flap.

## THERMAL CONDUCTIVITY | ASTM C177



Mean Temperature	k	k(Si)
75° F (24° C)	0.24	0.035
100° F (38° C)	0.25	0.036
200° F (93° C)	0.32	0.046
300° F (149° C)	0.39	0.056
400° F (204° C)	0.49	0.070
500° F (260° C)	0.61	0.088

## APPLICATION & SPECIFICATION GUIDELINES

### Precautions

- ASJ, FSK and PSK jackets should not be used if outer-surface temperature exceeds 150° F (66° C).
- During initial heat-up to operating temperatures above 350° F (177° C), a slight odor and some smoke may be given off as a portion of the bonding material used in the insulation begins to undergo a controlled decomposition.
- If natural convection is not adequate in confined areas, forced ventilation should be provided in order to protect against any harmful fumes and vapors that might be generated.
- Care must also be taken when using sealants, solvents or flammable adhesive during installation.

### Storage

- Protect stored insulation from water damage or other abuse.
- Protect from welding sparks and open flame.
- Packages are not designed for outside storage.

### Preparation

- Apply product on clean, dry surfaces.

## FIBERGLASS AND MOLD

Fiberglass insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold it must be discarded. If the material is wet but shows no evidence of mold, it should be dried rapidly and thoroughly. If it shows signs of facing degradation from wetting, it should be replaced.

## CERTIFICATIONS

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Check with your Knauf Insulation Territory Manager to ensure information is current.

The chemical and physical properties of this product represent average values determined in accordance with accepted test methods. The data is subject to normal manufacturing variations. The data is supplied as a technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

This product is covered by one or more U.S. and/or other patents.  
See patent [www.knaufnorthamerica.com/patents](http://www.knaufnorthamerica.com/patents)

Visit [knaufnorthamerica.com](http://knaufnorthamerica.com) to learn more.

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