

DATA SHEET

KFR Self-Cleaning Range Insulation

with *ECOSE® Technology*



DESCRIPTION

KFR Range Insulation is a blanket insulation made from inorganic glass fibers bonded with ECOSE Technology and designed to meet the needs of range manufactures. It is low smoke and odor alternative with a maximum service temperature of 1000° F.

APPLICATION

- Self-cleaning ranges
- Ranges
- Ovens

SPECIFICATION COMPLIANCE

- UL/ULC Classified

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.

CONTRACTOR: _____

JOB: _____

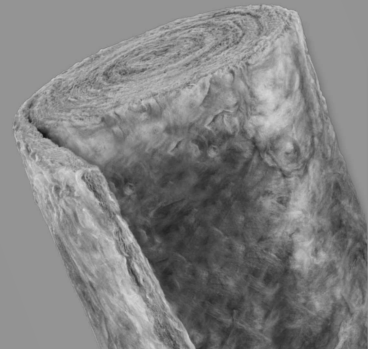
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DOING MORE FOR THE WORLD WE LIVE IN.

Knauf Insulation products with ECOSE® Technology are made using our patented, bio-based binder - a smarter alternative to the phenol/formaldehyde (PF) binder traditionally used in fiberglass products. The bio-based binder holds our product together, gives the product its unique appearance and makes it formaldehyde-free.

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.

with *ECOSE*[®]
TECHNOLOGY



TECHNICAL DATA		
Property (Unit)	Test	Performance
Corrosiveness	ASTM C665	Does not accelerate corrosion of steel
Odor Emission	ASTM C1304	Pass
Maximum Service Temperature	ASTM C411	1000 °F (538 °C)
Water Vapor Sorption (by weight)	ASTM C1104	Less than 3%
Mold Growth	ASTM C1338	Pass
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84, UL 723	25/50

FORMS AVAILABLE					
Density	Thickness	Width	Length	Layer	Current Minimum
1.10 PCF (17.6 kg/m ³)	1" (25 mm)	36"-48", 60"-96" (914-1219 mm, 1829-2438 mm)	95' (28.96 m)	Double	124,000 ft ²
	1½" (38 mm)		125' (38.1 m)	Single	83,000 ft ²
	2" (51 mm)		95' (28.96 m)	Single	62,000 ft ²
	3" (76 mm)		65' (19.81 m)	Single	42,000 ft ²
1.25 PCF (20 kg/m ³)	1" (25 mm)		85' (25.91 m)	Double	110,000 ft ²
	1½" (38 mm)		100' (30.48 m)	Single	74,000 ft ²
	2" (51 mm)		85' (25.91 m)	Single	55,000 ft ²
	3" (76 mm)		55' (16.76 m)	Single	37,000 ft ²
	4" (102 mm)		40' (12.19 m)	Single	27,000 ft ²
1.75 PCF (28 kg/m ³)	1" (25 mm)		110' (33.53 m)	Single	78,000 ft ²
	1½" (38 mm)		75' (22.86 m)	Single	52,000 ft ²
	1¾" (44 mm)		65' (19.81 m)	Single	45,000 ft ²
	2" (51 mm)		55' (16.76 m)	Single	39,000 ft ²
	2½" (64 mm)		45' (13.72 m)	Single	31,000 ft ²
	3" (76 mm)		40' (12.19 m)	Single	26,000 ft ²
2.50 PCF (40 kg/m ³)	1" (25 mm)		85' (25.91 m)	Single	55,000 ft ²
	1¼" (32 mm)		60' (18.29 m)	Single	44,000 ft ²
	1½" (38 mm)		55' (16.76 m)	Single	37,000 ft ²
	2" (51 mm)		40' (12.19 m)	Single	28,000 ft ²
3.70 PCF (59.3 kg/m ³)	¾" (19 mm)		70' (21.34 m)	Single	49,000 ft ²
	1" (25 mm)	60' (18.29 m)	Single	37,000 ft ²	
	1¼" (32 mm)	50' (15.24 m)	Single	30,000 ft ²	
	1½" (38 mm)	40' (12.19 m)	Single	25,000 ft ²	

THERMAL CONDUCTIVITY ASTM C177			
Density	Mean Temperature		
	75° F	300° F	500° F
1.10 PCF (17.6 kg/m ³)	0.26	0.50	0.90
1.75 PCF (28 kg/m ³)	0.24	0.38	0.60
2.50 PCF (40 kg/m ³)	0.22	0.37	0.57
3.70 PCF (59.3 kg/m ³)	0.22	0.34	0.48

CERTIFICATIONS



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

Visit knaufnorthamerica.com to learn more.

KNAUF INSULATION, INC.

One Knauf Drive
Shelbyville, IN 46176

Technical Support

(317) 398-4434 ext. 8727
info.us@knaufinsulation.com

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