KNAUF

Performance+

KFR Self Cleaning Range Insulation

with ECOSE® Technology

Product-Data-Sheet

Description

Performance+® 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

Indoor Air Quality

- **Asthma & Allergy Friendly®** Certified
- Verified Healthier Air™
- EUCEB Certified

Certifications

The Asthma & Allergy Friendly® Certification Mark is a Registered Certification Mark of the Asthma Allergy Foundation of America (AAFA) and Allergy Standards Ltd (ASL).
Verified Healthier Air™ is a trademark of Airmid Healthgroup.
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Contractor: _____

Job: _____

Date: _____

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, CAN/ULC S 102	UL/ULC Classified FHC 25/50

Forms Available

Density	Thickness	Width	Length	Layer	Current Minimum
1.10 PCF (17.6 kg/m³)	1" (25 mm)	36"–48", 60"–96" (914–1219 mm, 1829–2438 mm)	95' (28.96 m)	Double	124,000 ft²
	1½" (38 mm)		125' (38.1 m)	Single	83,000 ft²
	2" (51 mm)		95' (28.96 m)	Single	62,000 ft²
	3" (76 mm)		65' (19.81 m)	Single	42,000 ft²
1.25 PCF (20 kg/m³)	1" (25 mm)		85' (25.91 m)	Double	110,000 ft²
	1½" (38 mm)		100' (30.48 m)	Single	74,000 ft²
	2" (51 mm)		85' (25.91 m)	Single	55,000 ft²
	3" (76 mm)		55' (16.76 m)	Single	37,000 ft²
	4" (102 mm)		40' (12.19 m)	Single	27,000 ft²
1.75 PCF (28 kg/m³)	1" (25 mm)		110' (33.53 m)	Single	78,000 ft²
	1½" (38 mm)		75' (22.86 m)	Single	52,000 ft²
	1¾" (44 mm)		65' (19.81 m)	Single	45,000 ft²
	2" (51 mm)		55' (16.76 m)	Single	39,000 ft²
	2½" (64 mm)		45' (13.72 m)	Single	31,000 ft²
	3" (76 mm)		40' (12.19 m)	Single	26,000 ft²
2.50 PCF (40 kg/m³)	1" (25 mm)		85' (25.91 m)	Single	55,000 ft²
	1¼" (32 mm)		60' (18.29 m)	Single	44,000 ft²
	1½" (38 mm)		55' (16.76 m)	Single	37,000 ft²
	2" (51 mm)		40' (12.19 m)	Single	28,000 ft²
3.70 PCF (59.3 kg/m³)	¾" (19 mm)		70' (21.34 m)	Single	49,000 ft²
	1" (25 mm)		60' (18.29 m)	Single	37,000 ft²
	1¼" (32 mm)		50' (15.24 m)	Single	30,000 ft²
	1½" (38 mm)		40' (12.19 m)	Single	25,000 ft²

Thermal Conductivity | ASTM C177

Density	Mean Temperature		
	75° F	300° F	500° F
1.10 PCF (17.6 kg/m³)	0.26	0.50	0.90
1.75 PCF (28 kg/m³)	0.24	0.38	0.60
2.50 PCF (40 kg/m³)	0.22	0.37	0.57
3.70 PCF (59.3 kg/m³)	0.22	0.34	0.48

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.

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.

Consult with or follow local building and energy codes to determine appropriate R-values and need for and placement of a vapor retarder.

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