



Knauf Data Sheet

OEM-KFR-DS 9-14

KFR Self-Cleaning Range Insulation

Description

Knauf Insulation KFR Self-Cleaning Range Insulation is a natural brown color glass mineral wool blanket insulating material. KFR Insulation is designed to meet the design needs of range manufacturers. It is low smoke and odor alternative with a maximum service temperature of 1000°F.

ECOSE® Technology

ECOSE® Technology is a revolutionary binder chemistry that makes Knauf Insulation products even more sustainable than ever. It is based on rapidly renewable bio-based materials rather than petroleum chemicals. ECOSE® Technology reduces binder embodied energy and does not contain phenol, formaldehyde, acrylics or artificial colors.

Application

Knauf Insulation KFR Self-Cleaning Range Insulation is used in high temperature appliances such as self-cleaning ovens. It is suitable where thermal efficiency and/or user protection is required along with very low release of noxious fumes during heat up.

Features

- Low thermal conductivity
- Very low noxious/toxic gas release during heat up
- Fire-resistant, non-corrosive, tough and resilient
- Excellent acoustic insulating properties
- Carbon negative – Knauf Insulation products used for thermal insulating purposes recover the equivalent energy that it took to produce the product in a matter of hours in high temperature applications. Once installed, the product continues to save energy and reduce carbon generation as long as it is in place.
- Responsible use of resources – Knauf Insulation products with ECOSE Technology contain three primary ingredients:
 - A minimum of 50% post-consumer recycled bottle glass
 - Sand, one of the world's most abundant and renewable resources
 - ECOSE Technology binder features bio-based materials and reduces binder embodied energy by up to 70%.



Technical Specifications

Surface Burning Characteristics

- UL/ULC Classified.
- Does not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with ASTM E 84, and UL 723.

Maximum Service Temperature (ASTM C 411)

- Knauf Insulation KFR Self-Cleaning Range Insulation is designed for applications to a maximum operating temperature of 1000°F.

Corrosiveness (ASTM C 665)

- Will not accelerate corrosion of steel.

Odor (ASTM C 1304)

- Not objectionable.

Mold Growth (ASTM C 1338)

- Will not provide sustenance.

Water Vapor Sorption (ASTM C 1104)

- Less than 3% by weight.

Glass Mineral Wool and Mold

Glass mineral wool 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.

Notes

The chemical physical properties of KFR Self-Cleaning Range Insulation represent typical average values determined in accordance with accepted test methods. The data is subject to normal manufacturing and testing 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.

Check with your Knauf Insulation sales representative to assure information is current.

Thermal Conductivity (BTU•in/hr•ft²•°F)			
Density	Mean Temperature		
	75° F Mean	300° F Mean	500° F Mean
1.10 PCF (16 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

Forms Available

Density (lbs/ft³)	Thickness (in)	Square Foot Weight (lbs/ft²)	Length (ft)	Number of Layers
1.1	1	0.0917	95	2
	1½	0.1375	125	1
	2	0.1833	95	1
	3	0.275	65	1
1.25	1	0.1042	85	2
	1½	0.1562	100	1
	2	0.2083	85	1
	3	0.3125	55	1
	4	0.4167	40	1
1.75	1	0.1458	110	1
	1½	0.2187	75	1
	1¾	0.2552	65	1
	2	0.2917	55	1
	2½	0.3646	45	1
	3	0.4375	40	1
2.5	1	0.2083	85	1
	1¼	0.2604	60	1
	1½	0.3125	55	1
	2	0.4167	40	1
3.7	¾	0.2319	70	1
	1	0.3092	60	1
	1¼	0.3854	50	1
	1½	0.4637	40	1
	2	0.6167	96-120	1

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GREENGUARD Gold

Knauf Insulation achieved GREENGUARD GOLD Certification and is verified to be formaldehyde free.

GREENGUARD Certification Program

Products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.

Knauf Insulation has achieved a UL Environment claim validation for over 50% post-consumer recycled glass content in our insulation products.



LEED Eligible Product

Use of this product may help building projects meet green building standards as set by the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.

MR Credit 4.1 - 4.2 Recycled Content
MR Credit 5.1 - 5.2 Regional Materials