



Elevated Temperature Blanket 1000°F

with ECOSE® Technology



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Description

Knauf Elevated Temperature Blanket 1000°F with ECOSE Technology is a lightweight thermal insulation blanket (1.1 PCF, 17.6 kg/m³) made from highly resilient, inorganic glass fibers bonded by a high-temperature thermosetting resin.

ECOSE Technology

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

Application

Knauf Elevated Temperature Blanket 1000°F with ECOSE Technology is for industrial heating equipment to 1000°F (538°C), such as industrial furnaces, panel systems, marine applications and irregular surfaces.

Features and Benefits Excellent Thermal Properties

- Low thermal conductivity ratings to 1000°F (538°C).
- Increases system efficiency and decreases fuel usage.

Low-Cost Installation

- · Lightweight, and easy to handle and fabricate.
- Flexibility makes it ideal for flat or irregular surfaces.

Damage Resistant

- · Tough and resilient.
- Resists damage in shipment, and during and after installation.

Low Emitting

 Certified for indoor air quality as a low emitting product by The GREENGUARD Environmental Institute to both the GREENGUARD Certification ProgramSM and the more stringent GREENGUARD Children and SchoolsSM standard.

Sustainability

- Carbon negative: meaning Knauf insulation products used for thermal insulating purposes recover the energy that it took to make them in just hours or a few days, depending on the application. Once installed, the product continues to save energy and reduce carbon generation as long as it is in place.
- Fiber glass insulation with ECOSE Technology contains three primary ingredients:
- Sand, one of the world's most abundant and renewable resources
- · Post-consumer recycled bottle glass
- ECOSE Technology which reduces binder embodied energy by up to 70%

Specification Compliance

In U.S.:

- · GREENGUARD Indoor Air Quality Certified®
- GREENGUARD Children & SchoolsSM
- HH-I-558C; Form B, Class 7, 8
- MIL-I-22023D; Type I, Class 3; Type II, Class 3
- USCG 164.109/18/0

In Canada:

- CAN/ULC S102-M88
- · CCG F1-314
- CGSB 51-GP-11M

Technical Data

Surface Burning Characteristics

 Does not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with ASTM E 84, CAN/ULC S102-M88, and UL 723.

Water Vapor Sorption (ASTM C 1104)

• 0.1% or less by volume.

Temperature Limit (ASTM C 411)

• Up to 1000°F (538°C)

Microbial Growth (ASTM C 1338)

 Does not promote or support the growth of mold, fungi or bacteria.

Corrosiveness (ASTM C 665)

 Does not accelerate corrosion on aluminum, steel or copper.

Corrosiion (ASTM C 1617)

 The corrosion rate in mills/yr will not exceed that of the 1 ppm chloride solution.



Precautions

- 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.

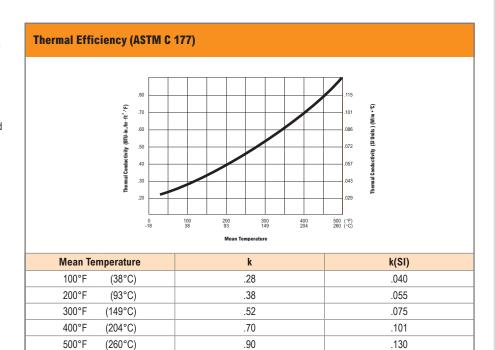
Fiber Glass and Mold

Fiber glass 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.

Notes

The chemical and physical properties of Knauf Elevated Temperature Blanket 1000° with ECOSE Technology represent typical 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.

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



Standard Sizes (Rolls)					
Thic	kness	Width	Length		
1"	(25 mm)	48" (1219 mm)	75' (22.90 m)		
1½"	(38 mm)		50' (15.20 m)		
2"	(51 mm)		75' (22.90 m)		
2½"	(64 mm)		60' (18.30 m)		
3"	(76 mm)		50' (15.20 m)		
3½"	(89 mm)		45' (13.70 m)		
4"	(102 mm)		40' (12.20 m)		

Made-To-Order Sizes					
Thickness		Width	Length		
1"	(25 mm)		Custom		
1½"	(38 mm)				
2"	(51 mm)	24" (610 mm)			
21/2"	(64 mm)	36" (914 mm)			
3"	(76 mm)	48" (1219 mm)			
31/2"	(89 mm)				
4"	(102 mm)				





Knauf Insulation GmbH One Knauf Drive Shelbyville, IN 46176

Sales and Marketing (800) 825-4434, ext. 8283

Technical Support (800) 825-4434, ext. 8212

Fax (317) 398-3675

Information info.us@knaufinsulation.com

World Wide Web www.knaufinsulation.us

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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

 $\begin{array}{l} \text{MR Credit 5.1} - 5.2 \\ \text{Regional Materials} \end{array}$



Knauf Elevated Temperature Blanket 1000° with ECOSE® Technology products are certified for indoor air quality by The GREENGUARD Environmental Institute™, to both the GREENGUARD Certification ProgramSM and the more stringent GREENGUARD For Children and Schools™ Standard. www. greenguard.org

The GREENGUARD INDOOR AIR QUALITY CERTIFIED Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute.