KNAUF INSULATION

Knauf Data Sheet | PE-DS-8 04-08

Elevated Temperature Blanket 1000°F

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Description

Knauf Elevated Temperature Blanket 1000°F is a lightweight thermal insulation blanket (1.1 PCF, 17.6 kg/m^3) made from highly resilient, inorganic glass fibers bonded by a high-temperature thermosetting resin.

Application

Knauf Elevated Temperature Blanket 1000°F 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.

Specification Compliance

In U.S.:

- ASTM C 795
- HH-I-558C; Form B, Class 7, 8
- MIL-I-22023D; Type I, Class 3; Type II, Class 3
- MIL-I-24244C
- NRC Reg. Guide 1.36
- 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)

- No growth.
- Will not rot.
- Will not sustain vermin.

Non-Corrosive (ASTM C 665)

- Will not accelerate corrosion of steel.
- Complies to stress corrosion requirements of ASTM C 795, MIL-I-24244C, and NRC Reg. Guide 1.36.

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

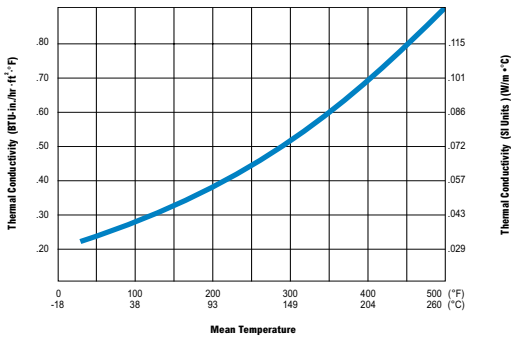
Fiber glass insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated with organic materials. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold it must be discarded. If the material is wet but 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° 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 sales representative to assure information is current.

Thermal Efficiency (ASTM C 177)



Mean Temperature	k	k(SI)
100°F (38°C)	.28	.040
200°F (93°C)	.38	.055
300°F (149°C)	.52	.075
400°F (204°C)	.70	.101
500°F (260°C)	.90	.130

Standard Sizes (Rolls)

Thickness	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)	24" (610 mm) 36" (914 mm) 48" (1219 mm)	Custom
1½" (38 mm)		
2" (51 mm)		
2½" (64 mm)		
3" (76 mm)		
3½" (89 mm)		
4" (102 mm)		

- Easy to fabricate, tough and resilient.

- Knauf's ET Blanket is a lightweight thermal insulation blanket for applications up to 1000°F.

- Ideal for flat or irregular surfaces, especially for applications requiring a more flexible insulation.

KNAUF INSULATION

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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