

DATA SHEET

Elevated Temperature Blanket 1000°

with *ECOSE®* Technology



DESCRIPTION

Elevated Temperature Blanket 1000° is a lightweight, thermal insulation blanket made from highly resilient, inorganic glass fibers bonded with ECOSE Technology.

APPLICATION

- Industrial heating equipment to 1000° F (538° C) such as industrial furnaces and marine applications
- Applications where lighter-weight insulation or flexible high-temperature insulations are needed for curved and irregular surfaces

SPECIFICATION COMPLIANCE

U.S.

- ASTM C1139 Type I Grade 2, Type II Grade 2 (withdrawn 2019)
 - ASTM C553; Type I, II, V
 - Conformity for Marine Equipment IMO 1408
 - MIL-DTL-32585; Type 1, Form 2, Facing A
 - USCG 164.109/18/1
 - UL/ULC Classified (UL 723)
- ASTM C795, MIL-I-2424, NRC Reg. Guide 1.36 (Certification needs to be specified at time of order)

Canada

- CAN/ULC S102

CONTRACTOR: _____

JOB: _____

DATE: _____

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.

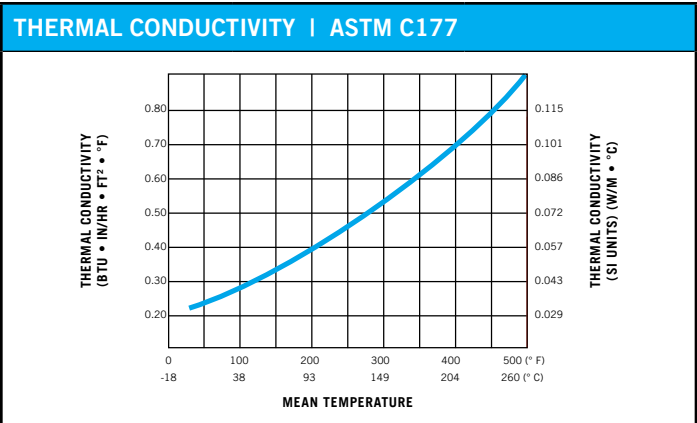
with **ECOSE®**
TECHNOLOGY



TECHNICAL DATA		
Property (Unit)	Test	Performance
Corrosiveness	ASTM C665	Does not accelerate corrosion of steel
Corrosion	ASTM C1617	Pass
Water Vapor Sorption (by weight)	ASTM C1104	Less than 5%
Maximum Service Temperature	ASTM C411	1000° F (538° C)
Mold Growth	ASTM C1338	Pass
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84, UL 723, CAN/ULC S102	UL/ULC Classified FHC 25/50

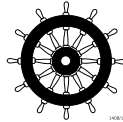
STANDARD SIZES ROLLS			
Density	Thickness	Width	Length
1.1 PCF (17.6 kg/m ³)	1" (25 mm)	48" (1,219 mm)	75' (22.90 m)
	1½" (38 mm)		50' (15.20 m)
	2" (51 mm)		75' (22.90 m)
	2½" (64 mm)		60' (18.30 m)
	3" (76 mm)		50' (15.20 m)
	3½" (89 mm)		45' (13.70 m)
	4" (102 mm)		40' (12.20 m)

MADE-TO-ORDER SIZES			
Density	Thickness	Width	Length
1.1 PCF (17.6 kg/m ³)	1" (25 mm)	24" (610 mm) 36" (914 mm) 48" (1,219 mm)	Custom
	1½" (38 mm)		
	2" (51 mm)		
	2½" (64 mm)		
	3" (76 mm)		
	3½" (89 mm)		
	4" (102 mm)		



Mean Temperature	k	k(SI)
100° F (38° C)	0.28	0.040
200° F (93° C)	0.38	0.055
300° F (149° C)	0.52	0.075
400° F (204° C)	0.70	0.101
500° F (260° C)	0.90	0.130

CERTIFICATIONS



INDOOR AIR QUALITY

- UL Environment
 - GREENGUARD Certified
 - GREENGUARD Gold Certified
 - Validated to be Formaldehyde-Free
- Does not contain polybrominated diphenyl ethers (PBDE) such as: Penta-BDE, Octa-BDE or Deca-BDE
- EUCEB Certified

APPLICATION & SPECIFICATION GUIDELINES

Precaution

- 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.

Storage

- Protect material from water damage or other abuse. Protect from welding sparks and open flame. The material may be stored outside if the packaging is not damaged.

Preparation

- Apply the product on clean, dry surfaces.

Application

- There is no heat-up cycle required.
- The product should be secured with welded pins or studs and covered with sheet metal. An alternate method entails covering the insulation with a metal mesh and insulating cement, canvassing and painting.
- Pins and washers shall be located a maximum of 4" (102 mm) from each edge and spaced no greater than 16" (406 mm) on center.
- Care should be taken to avoid over compressing the insulation with the retaining washer.
- For application over 450° F (232° C), double layer application is recommended.

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.

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. If it shows signs of facing degradation from wetting, it should be replaced.

KNAUF INSULATION, INC.

One Knauf Drive
Shelbyville, IN 46176

Technical Support

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

02-20

© 2020 Knauf Insulation, Inc.