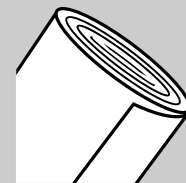


ELEVATED TEMPERATURE BLANKET 1000°



Submittal Sheet

Form No. IC-SS-8

Effective: 11/01

Supersedes, IC-SS-8

Dated 11/00

Submittal Date:

KNAUF

“This is my insulation.”®

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Knauf has regional offices throughout the U.S. and Canada. For the number of the nearest office, call (800) 825-4434.

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DESCRIPTION

Knauf ET Blanket 1000° 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.

APPLICATION

Knauf ET Blanket 1000° 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 164.009/259/0

In Canada:

- CAN 4-S102
- 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 4-S102 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).

Resists Microbial Growth (ASTM C 1338)

- No growth.
- Will not rot or 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 1.36.

APPLICATION AND 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 for Knauf ET Blanket 1000°.
- 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 of Knauf ET Blanket 1000° over 450°F (232°C), double layer application is recommended.

Caution

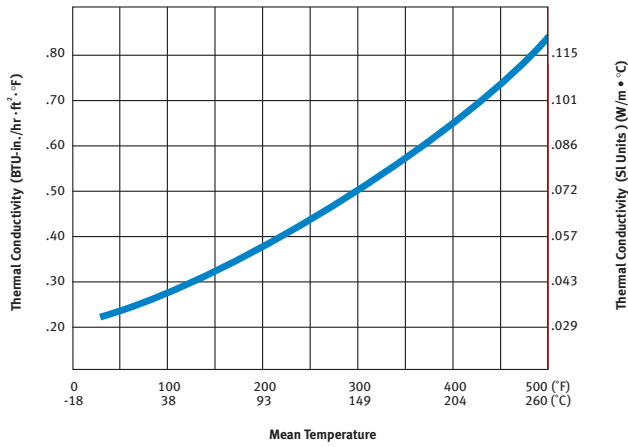
Fiber glass may cause temporary skin irritation. Wear long-sleeved, loose-fitting clothing, head covering, gloves and eye protection when handling and applying material. Wash with soap and warm water after handling. Wash work clothes separately and rinse washer. A disposable mask designed for nuisance type dusts should be used where sensitivity to dust and airborne particles may cause irritation to the nose or throat.

NOTES

The chemical and physical properties of Knauf ET 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 regional office to assure information is current.

ELEVATED TEMPERATURE BLANKET 1000°

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) | | |