

**HIGH TEMPERATURE BLANKET 1000°F** is a lightweight insulation blanket (1.1 PCF, 17.6kg/m<sup>3</sup>), made from highly resilient, inorganic glass fibers, bonded by high-temperature thermsetting resin.

## APPLICATION

Manson HIGH TEMPERATURE BLANKET 1000°F is used for industrial heating equipment up 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)
- Increase system efficiency and decrease fuel use

### Low Installed Cost

- Light weight and easy to handle and fabricate
- Flexibility makes them ideal for flat or irregular surfaces

### Packaging- Cartons & Sleeves

- Tough and resilient
- Resist damage in shipment, during and after installation

## SPECIFICATION COMPLIANCE

### ASTM C 795

ASTM C1139 replaces MIL-I-22023D

### MIL-I-24244C

### HH-1-558C

- Form B, Class 7,8

### NRC Reg Guide 1.36

### In Canada

- CAN/ULC S102-M88

### Water Vapor Sorption (ASTM C 1104)

- 0.1% or less by volume

### City of New York MEA 364-83-M

## PRODUCT FEATURES

### 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

### Temperature Limitation (ASTM C 411)

- Up to 1000°F (538°C)

### Microbial Growth (ASTM C 1338)

- Does not promote or support the growth of mold
- Will not rot
- Will not support vermin

### Alkalinity (ASTM C 871)

- Less than 0.6% as Na<sub>2</sub>O
- pH between 7.5 and 12.0

### Non-Corrosive (ASTM C 665)

- Will not accelerate corrosion of steel
- Complies to stress corrosion requirements of MIL-I-24244C

CONTRACTOR:

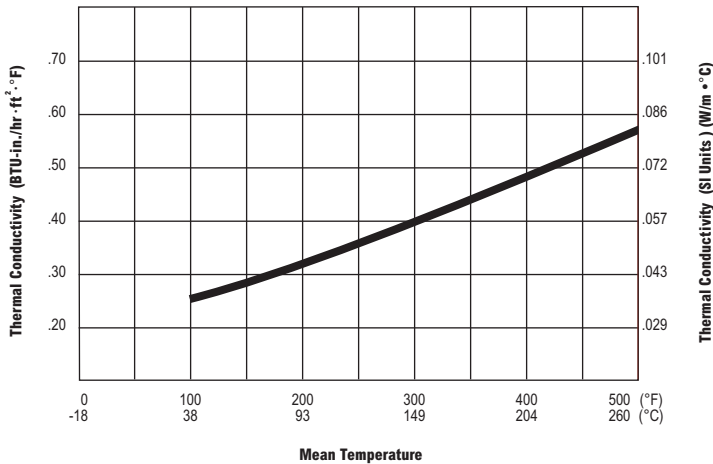
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# High Temperature Blanket 1000°F



## Thermal Efficiency (ASTM C 177)



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

## Standard Sizes (Rolls)

Thickness	Width	Length
1" (25 mm)	48" (1219 mm)	75' (22.90 m)
1.5" (38 mm)		50' (15.20 m)
2" (51 mm)		75' (22.90 m)
2.5" (64 mm)		60' (18.30 m)
3" (76 mm)		50' (15.20 m)
3.5" (89 mm)		45' (13.70 m)
4" (102 mm)		40' (12.20 m)

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

## NOTES

The chemical and physical properties of Manson High Temperature Blanket 1000°F 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 Manson Territory Manager to assure information is current.

## 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 requires for Manson High Temperature Blanket 1000°F.
- 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.
- Care should be taken to avoid over compressing the insulation with the retaining washer.
- Pins and studs shall be located a maximum of 4" (102 mm) from each edge and spaced no greater than 16" (406 mm) on centre.
- For application of Manson High Temperature Blanket 1000° F over 500°F (260°C), double layer application is recommended with staggered joints.

### CAUTION

Glass mineral wool 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.