MANSON INSULATION

CONTRACTOR

JOB NAME

DATE

HIGH TEMPERATURE BLANKET

Temperature Limit: 1000° F (538° C)

DESCRIPTION

High Temperature Blanket is a lightweight insulation blanket (1.1 PCF, 17.6 kg/m³) made from highly resilient, inorganic glass fibers bonded with a high-temperature thermosetting resin.

SUSTAINABILITY

Manson 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 and gives the product its unique appearance.

All of our products are formaldehyde-free and 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.

APPLICATION

Manson Insulation High Temperature Blanket is used for industrial heating equipment up to 1000° F (538° C), such as industrial furnaces, panel systems, marine applications and irregular surfaces.

INDOOR AIR QUALITY

- UL Environment
  - GREENGUARD Certified
  - GREENGUARD Gold Certified
  - Validated to be Formaldehyde-Free
- EUCEB certified

SPECIFICATION COMPLIANCE

- ASTM C1139 (withdrawn 2019); Type I Grade 2, Type II Grade 2
- ASTM C553; Type I, II, V
- MIL-DTL-32585; Type I, Form 2, Facing A

- ASTM C795
- MIL-I-24244
- NRC Reg. Guide 1.36
  (Certification needs to be specified at the time of the order)
- USCG 164.109/A18/0

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.

NOTES

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.

Check with your Manson Insulation Area Manager to ensure information is current.

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TECHNICAL DATA

PROPERTY (UNIT)	TEST	PERFORMANCE
Corrosiveness	ASTM C665	Does not accelerate corrosion of steel
Corrosion	ASTM C1617	Pass
Maximum Service Temperature	ASTM C411	1000° F (538° C)
Water Vapor Sorption (by weight)	ASTM C1104	Less than 5%
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

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.

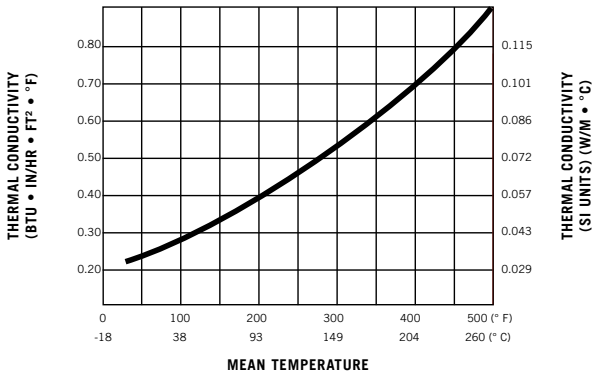
Preparation

- Apply the product on clean, dry surfaces.

Application

- There is no heat-up cycle requires for Manson Insulation High Temperature Blanket.
- 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 center.
- For application over 500° F (260° C), double layer application is recommended with staggered joints.

THERMAL EFFICIENCY | ASTM C177



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

FORMS AVAILABLE

THICKNESS	WIDTH	LENGTH
1" (25 mm)	48" (1,219 mm)	75' (22.9 m)
1½" (38 mm)		50' (15.2 m)
2" (51 mm)		75' (22.9 m)
2½" (64 mm)		60' (18.3 m)
3" (76 mm)		50' (15.2 m)
3½" (89 mm)		45' (13.7 m)
4" (102 mm)		40' (12.2 m)

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