



HIGH TEMPERATURE BOARD

Temperature Limit: 1000° F (538° C)

DESCRIPTION

High Temperature Board is a lightweight insulation (2.8 PCF, 44.9 kg/m³) product made from inorganic glass fibers bonded with a high-temperature thermosetting resin.

SUSTAINABILITY

Manson Insulation products with ECOSE[®] Technology are made using a 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, making it formaldehyde-free.

We design with sustainability in mind, using a minimum of 50% recycled glass to create insulation products that help save energy and reduce emissions.

APPLICATION

Manson Insulation High Temperature Board is used for boiler walls, hot precipitators, hot ductwork, cylindrical tanks, towers, stacks, and industrial ovens.

INDOOR AIR QUALITY

- **Asthma & Allergy Friendly[®]** Certified
- Verified Healthier Air[™]
- UL Environment
 - GREENGUARD Certified
 - GREENGUARD Gold Certified
 - Validated to be Formaldehyde-Free
- EUCB certified

SPECIFICATION COMPLIANCE

- ASTM C612; Types IA, IB, II and III; Category I
- ASTM C1139; Type I Grade 5, Type II Grade 5 (withdrawn 2019)
- MIL-DTL-32585; Type I, Form I, Facing A

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

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
Water Vapor Sorption	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

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. Cartons are not designed for outside storage. Vacuum packaged material can be stored outside if care is taken not to puncture the polybag.

Preparation

- Apply the product on clean, dry surfaces.

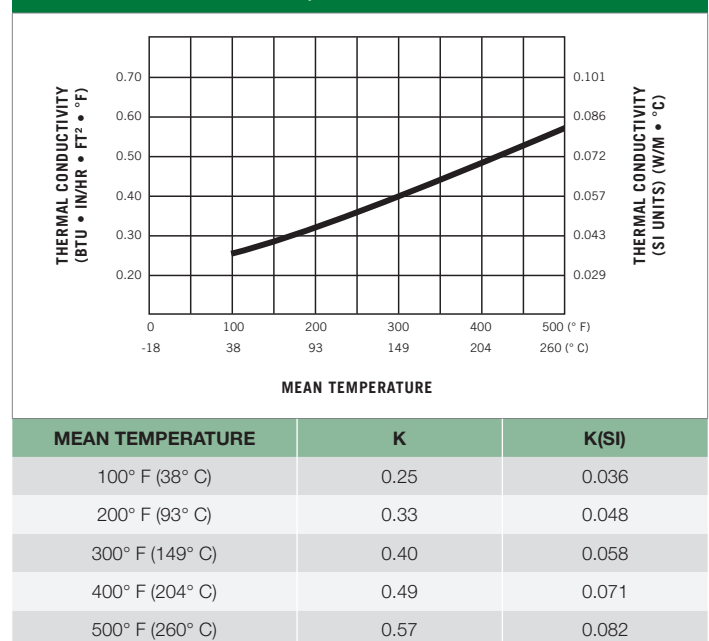
Application

- All insulation joints must be firmly butted. Mount flush against surfaces up to 1000° F (538° C) or use in panels mounted away from operating surface.
- Manson Insulation High Temperature Board is designed to be applied over welded pins and/or studs up to ½" (13 mm) in diameter. The board is to be held in place by speed washers, tension clips or metal mesh reinforcement.
- Installation method should not compress material beyond maximum of 5% at any point.
- 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.
- In temperatures over 550° F (288° C) and designed thickness over 3" (76 mm) dual layer application with staggered joints is recommended. Install thickness recommended by Manson Insulation or NAIMA 3E Plus program.
- Finish surface with metal cover, or with insulating cement and canvas.

CUSTOM FORMS AVAILABLE

DENSITY	THICKNESS	WIDTH	LENGTH
2.8 PCF (44.9 kg/m ³)	1" (25 mm)	24" (610 mm) and 48" (1,219 mm)	48" (1,219 mm) and 96" (2,438 mm)
	1 ½" (38 mm)		
	2" (51 mm)		
	3" (76 mm)		
	4" (102 mm)		

THERMAL CONDUCTIVITY | ASTM C177



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