

# Industrial Board Insulation®



**Insulation for thermal and acoustical performance in commercial and industrial applications.**

- For use in continuous service up to 1200°F (649°C).
- Exceptional thermal performance and resiliency.
- Dimensionally stable at elevated temperatures with very low linear shrinkage.
- Excellent fire performance, noncombustible.
- Will not wick moisture, promote corrosion or conduct electricity.
- Lightweight and easy to fabricate.

## Description

THERMAFIBER Industrial Board is an economical, semi-rigid, preformed mineral fiber insulation consisting of chemically inert mineral fibers bonded with a high temperature, thermosetting binder. Industrial Board is available in nominal densities from 4 to 12 lb./cu. ft. and suitable for temperatures up to 1200°F (650°C).

## Applications

THERMAFIBER Industrial Board Insulation offers excellent thermal and acoustical performance in both hot and cold applications to conserve energy, maintain process temperatures, provide personnel protection, prevent condensation, and reduce noise emission and transmission.

Industrial Board Insulation may be used to insulate plant equipment such as boilers, furnaces, ovens, ducts, precipitators, tanks and other mechanical equipment operating at continuous service temperatures from sub-ambient to 1200°F.

## General Information

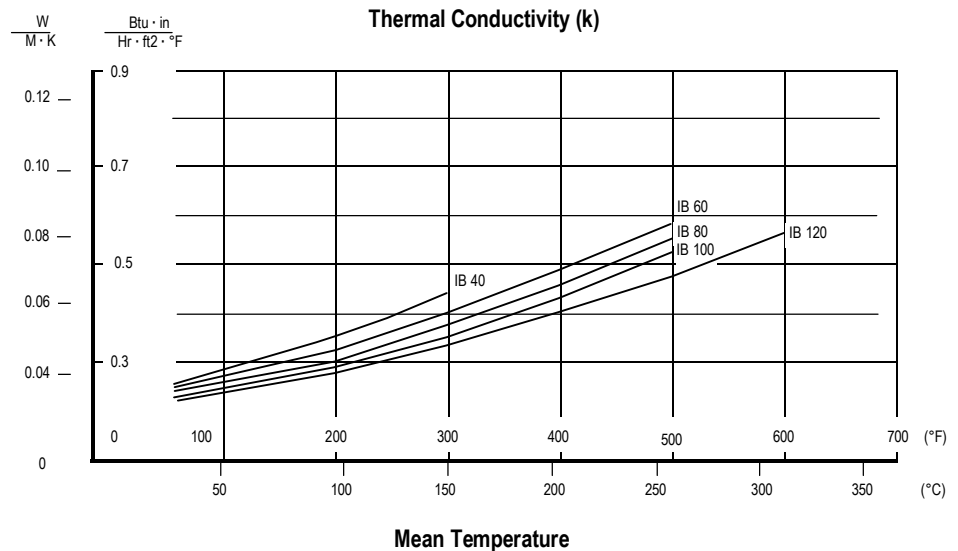
THERMAFIBER Industrial Board Insulation is available in five nominal densities, 4 through 12 lb./cu.ft. and meets or exceeds the requirements of ASTM C 612. Industrial Board products are available in various thicknesses from 1" to 6", in 1/2" increments. Standard width is 24"; standard length is 48".\*

### Product Nomenclature

	Nominal Density (pcf)	Compliance	Max. Thickness (in.)
Industrial Board 40	4	ASTM C 612-00, Type IA	6
Industrial Board 60	6	ASTM C 612-00, Type II	6
Industrial Board 80	8	ASTM C 612-00, Type IVA	6
Industrial Board 100	10	ASTM C 612-00, Type IVA&B	5
Industrial Board 120	12	ASTM C 612-00, Type IVA&B	4

\*Non-standard sizes available

## Thermal Performance



Based on measurements made in accordance with ASTM C-177\* Steady State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded Hot Plate Apparatus.

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**Other Information**

Moisture Resistance	Adsorbs less than 1% by weight per ASTM C-553 Does not Wick per ASTM C-800
Stress Corrosion	Complies with ASTM C-795, MIL I 24244B and NRC 1.36
Linear Shrinkage	0% at 1,050°F (551°C); <1% at 1200°F (649°C)
Melt Point	>2000° F (1093°C)
Combustibility	Rated noncombustible per ASTM E-136
Surface Burning Characteristics	Flame spread 0; Smoke developed 0, per ASTM E-84

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**Specification Compliance**

THERMAFIBER Industrial Board products comply to the following standards and specifications: ASTM E-84; rated non combustible as defined by NFPA Standard 220 when tested according to ASTM E136; ASTM C-177; ASTM C-411; ASTM C-518; ASTM C-553 (Federal Spec. HH-I-558B); ASTM C-612; ASTM C-1338.

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**Start Up Procedure**

On initial start-up only, heat rise should not exceed 15°F per minute to allow binder to dissipate without excessive temperature rise. Thermal conductivity is not affected. When using in applications where insulation is exposed to high air velocities, adequate protection must be provided to prevent erosion of insulation. Severe vibration may cause degradation of insulation under some conditions. Contact your THERMAFIBER representative for recommendations on unusual applications.

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**Safety First**

Follow good safety and industrial hygiene practices during handling and installing of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

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**General**

The information presented herein represents typical or average values obtained by ASTM or other standard methods. The values will vary due to normal manufacturing variations. The person using this product must determine its suitability for a particular application.

THERMAFIBER, Inc. shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

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**THERMAFIBER, Inc.**

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For further information contact THERMAFIBER, Inc. at 1-888-TFIBER1 (834-2731) or visit our web site at <http://www.thermafiber.com>.

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