



THERMAFIBER® INDUSTRIAL FABRICATION BOARD

MINERAL WOOL INSULATION

Economical, rigid mineral fiber board insulation for fabrication of V-groove, fittings, and precision cut pipe. Excellent thermal and acoustical performance in both hot and cold applications. Conserves energy, maintains process temperatures, prevents condensation, and reduces noise emission and transmission. Available in an actual density of 6.5 lbs/ft³ and suitable for temperatures up to 1,200°F (649°C). On initial startup only, heat rise should not exceed 15°F per minute to allow binder to dissipate without excessive temperature rise. Thermal conductivity is not affected.

Features

- Used in continuous service up to 1,200°F (649°C)
- Easily fabricated
- Noncombustible
- Excellent thermal performance and resiliency
- Dimensionally stable at elevated temperatures
- Noncorrosive

Standards, Codes Compliance

- ASTM C612, Mineral Fiber Block & Board Thermal Insulation, Types IA, IB, II, III, IVA, and IVB
- Doesn't contain the fire retardant decabrominated diphenyl ether (decaBDE)

Physical Properties

PROPERTY	TEST METHOD	VALUE
Density (Actual)	ASTM C303	6.5 lbs/ft ³ (105 kg/m ³)
Maximum Use Temperature ¹	ASTM C411	1,200°F (649°C)
Compressive Strength (min) at 10% deformation at 25% deformation	ASTM C165	2" Thickness 542 lb/ft ² 840 lb/ft ²
Mineral Fiber Block & Board Thermal Insulation	ASTM C612	Types IA, IB, II, III, IVA, IVB
Linear Shrinkage	ASTM C356	<0.5% at 1,200°F (649°C)
Water Vapor Sorption	ASTM C1104	<0.5% by weight at 120°F (49°C), 95% R.H.
Fungi Resistance	ASTM C1338	Pass – No Growth

Corrosion Resistance

PROPERTY	TEST METHOD	VALUE
Corrosion to Steel, Copper, and Aluminum	ASTM C665	Pass
Corrosion to Steel	ASTM C1617	Pass
Stress Corrosion Evaluation on external stress corrosion cracking tendency of austenitic stainless steel ²	ASTM C795 and ASTM C692	Pass
Chemical Analysis for Cl ⁻ , F ⁻ , Na ⁺ , SiO ₃ 2	ASTM C795 and ASTM C871	Results fall within acceptability limits
Non-Metallic Thermal Insulation ²	NRC 1.36	Complies

Fire Performance

PROPERTY	TEST METHOD	VALUE
Non-Combustibility	ASTM E136 and CAN/ULC S114	Pass: Complies with NFPA 220
Surface Burning Characteristics ³	UL 723, ASTM E84, and CAN/ULC S102	Flame Spread Index 0 Smoke Developed Index 0

¹ Test thickness at 4" (102 mm).

² Preproduction qualification testing complete and on file. Chemical analysis of each production lot required for total conformance. Certification needs to be specified at time of order.

³ The surface burning characteristics of these products have been determined in accordance with UL 723, ASTM E84, and CAN/ULC-S102. Values are reported to the nearest 5 rating.

Acoustical Performance (Tested to ASTM C423 & E795)

THICKNESS	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.63	0.16	0.73	1.08	1.07	1.02	1.05	1.00
2.13	0.23	0.91	1.08	1.07	1.03	1.03	1.00
2.5	0.27	0.98	1.01	1.04	1.02	0.99	1.00
2.63	0.31	0.97	0.99	1.05	1.02	1.01	1.00
3.13	0.46	0.99	1.00	1.05	1.02	1.02	1.00
3.63	0.49	0.89	1.00	1.02	1.03	1.01	1.00
4.13	0.53	0.87	0.97	1.03	1.03	1.02	1.00

Product Data Sheet | Thermafiber® Industrial Fabrication Board | Bradco Supply

Availability

For product availability and custom fabrication, please contact Bradco Supply. We fabricate pipe, fittings, valves, vessels and specialty insulation products for food & beverage, cold storage, and industrial markets.

Thermal Conductivity (Tested to ASTM C177)

MEAN TEMPERATURE °F	75	100	200	300	400	500	600	700
Fabrication Board K-VALUE (BTU·IN/HR·FT²·°F)	0.23	0.25	0.29	0.34	0.40	0.47	0.55	0.65

Environmental and Sustainability

This product contains a minimum of 70% recycled content (verified by ICC-ES Evaluation Report VAR-1025). An Environmental Product Declaration (EPD) has been certified by UL Environment.

Certifications and Sustainable Features

- Verified by ICC-ES to contain a minimum of 70% recycled content. See ICC-ES Evaluation Report VAR-1025 at icc-es.org.
- Environmental Product Declaration (EPD) has been certified by UL Environment. For more information, visit ul.com/epd.
- Made in the USA

Disclaimer of Liability

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, neither the manufacturer nor Bradco Supply makes any representation about, and is not responsible or liable for, the accuracy or reliability of data associated with particular uses of any product described herein. Specifications subject to change without notice.

For additional information, refer to the Safe Use Instruction Sheet (SUIS) / SDS available from the manufacturer.

BRADCO SUPPLY	Custom Mechanical Fabrication & Insulation Supply
1701 Southern Rd Kansas City, MO 64120 USA www.bradco.supply	Pipe • Fittings • Valves • Vessels Specialty Insulation Products Food & Beverage • Cold Storage • Industrial

Pub. No. 10022477-D (Bradco edition) • Adapted August 2026 • © 2026 Bradco Supply. All Rights Reserved. Thermafiber® is a registered trademark of Owens Corning.