



THERMAFIBER® MARINE BOARD MINERAL WOOL INSULATION

Thermafiber® Marine Board is an economical, rigid, mineral fiber insulation that offers excellent thermal performance in hot and cold applications while also enhancing acoustical absorption throughout the vessel application. It conserves energy, maintains process temperatures, provides personnel protection, prevents condensation, and reduces noise emission and transmission. It is available in nominal density of 4 lb/cu. ft. and is suitable for temperatures up to 1,200°F (649°C).

Product

- Marine Board 40

Features

- Continuous service up to 1,200°F (650°C)
- Easily fabricated and installed
- Non-combustibility per USCG 164.109
- Excellent thermal performance and resiliency
- Dimensionally stable at elevated temperatures
- Non-corrosive

Standards, Codes Compliance

- ASTM C612, Mineral Fiber Block & Board Thermal Insulation – Marine Board: Type IVA
- ASTM C795, Thermal Insulation for Use in Contact with Austenitic Stainless Steel¹
- MIL-DTL-32585, Insulation, Thermal and Acoustic, Fibrous Glass; Type I and II; Form 1; Facing A
- MIL-DTL-24244D (Ships) Insulation Material with Special Corrosion, Chloride, and Fluoride Requirements¹
- U.S. Coast Guard Approval No. 164.109/81/0 Noncombustible Materials

¹ 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.

Technical Data

PRODUCT	TESTED TO ASTM C177 (K-VALUE – BTU · IN/HR · FT ² · °F)							
	MEAN TEMPERATURE °F							
	75°	100°	200°	300°	400°	500°	600°	700°
Marine Board 40	0.24	0.26	0.34	0.42	0.52	0.63	0.76	0.92

Physical Properties

PROPERTY	TEST METHOD	VALUE
Density	ASTM C303	Nominal 4.0 pcf
Maximum Use Temperature ²	ASTM C411	Up to 1,200°F (649°C)
Linear Shrinkage	ASTM C356	<2.0% 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		
Corrosion to Copper and Aluminum	ASTM C665	Pass – both metals
Corrosion to Steel	ASTM C1617	Pass
Stress Corrosion Evaluation on External Stress Corrosion Cracking Tendency of Austenitic Stainless Steel	ASTM C795 and ASTM C692 ³	Pass
Chemical Analysis for Cl ⁻ , F ⁻ , Na ⁺ , SiO ₃	ASTM C795 and ASTM C871 ³ MIL-DTL-24244D	Results fall within acceptability limits
FIRE		
Non-Combustibility	ASTM E136	Pass – non-combustible as defined per NFPA 220
Non-Combustibility	CAN/ULC S114	Pass
Non-Combustibility	ISO 1182	Pass
Surface Burning Characteristics ⁴	UL 723, ASTM E84 and CAN/ULC S102	Flame Spread Index 0 Smoke Developed 0

² Test thickness at 4" (102mm).

³ 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.

⁴ 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

PRODUCT	TESTED TO ASTM C423 & E795						
	SOUND ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (Hz)						
	125	250	500	1000	2000	4000	NRC
Marine Board 40	0.19	0.83	1.20	1.14	1.04	1.09	1.05

Availability

PRODUCT	THICKNESS	WIDTHS	LENGTHS
Marine Board 40	1.5" (38 mm) 2" (51 mm) 3" (75 mm) 4" (101.6 mm)	24" (610 mm) 36" (914 mm)	48" (1,220 mm)

Applications

Non-combustible insulation for thermal and acoustical applications aboard civilian and military vessels.

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation, and composite solutions, delivering a broad range of high-quality products and services.

Owens Corning is committed to driving sustainability by delivering solutions, transforming markets, and enhancing lives. More information can be found at www.owenscorning.com.

Certifications and Sustainable Features

- Certified by ICC-ES to contain a minimum of 70% recycled content.



Disclaimer of Liability

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. Thermafiber, Inc. liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered.

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Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>.

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