



THERMAFIBER® INDUSTRIAL BLANKET MINERAL WOOL INSULATION

Thermafiber® Industrial Blanket is an economical, flexible, mineral fiber blanket insulation that offers excellent thermal and acoustical performance in both hot and cold applications. It conserves energy, maintains process temperatures, provides personnel protection, prevents condensation, and reduces noise emission and transmission. It is available in nominal densities from 4 to 10 lb/cu. ft. and is 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)
- Ideal for curved services (tanks, vessels)
- Easily fabricated and installed
- Noncombustible
- Excellent thermal performance and resiliency
- Dimensionally stable at elevated temperatures

Standards, Codes Compliance

- ASTM C553, Mineral Fiber Blanket, Thermal Insulation:
 - Industrial Blanket 40: Types I, II, III, IV, V, VI, VII
 - Industrial Blanket 60: Types I, II, III, IV, V, VI, VII
 - Industrial Blanket 80: Types I, II, III, IV, V, VI, VII
 - Industrial Blanket 100: Types I, II, III, IV, V, VI, VII
- Doesn't contain the fire retardant decabrominated diphenyl ether (decaBDE)

Technical Data

TESTED TO ASTM C177
K-VALUE – (BTU • IN/HR • FT² • °F)

MEAN TEMPERATURE °F	75°	100°	200°	300°	400°	500°	600°	700°
Industrial Blanket 40	0.23	0.25	0.31	0.37	0.45	0.54	0.65	0.79
Industrial Blanket 60	0.23	0.24	0.29	0.35	0.41	0.49	0.58	0.69
Industrial Blanket 80	0.24	0.25	0.29	0.34	0.39	0.46	0.53	0.62
Industrial Blanket 100	0.24	0.25	0.29	0.33	0.38	0.44	0.51	0.59

Physical Properties

PROPERTY	TEST METHOD	VALUE
Density	ASTM C303	Industrial Blanket 40 4.0 pcf Industrial Blanket 60 6.0 pcf Industrial Blanket 80 8.0 pcf Industrial Blanket 100 10.0 pcf
Maximum Use Temperature ¹	ASTM C411	Max temperature 1,200°F (649°C)
Linear Shrinkage	ASTM C356	Linear shrinkage <2% @ 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	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 ₂ ²	ASTM C795 and ASTM C871	Results fall within acceptability limits
Non-Metallic Thermal Insulation ²	NRC 1.36	Complies

FIRE	TEST METHOD	VALUE
Non-Combustibility	ASTM E136 and CAN/ULC S114	Pass: Noncombustible as defined per NFPA Standard 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 inches (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
SOUND ABSORPTION COEFFICIENTS AT
COTAVE BAND CENTER FREQUENCIES (HZ)

PRODUCT ^{4,5}	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
Industrial Blanket 40	0.14	0.92	1.19	1.11	1.03	1.03	1.05
Industrial Blanket 60	0.17	0.99	1.17	1.09	1.02	1.02	1.05
Industrial Blanket 80	0.21	1.00	1.08	1.04	1.01	1.02	1.05
Industrial Blanket 100	0.19	0.97	0.91	0.98	1.00	1.03	0.95

4 All testing at 2" thickness.

5 Additional testing & results available on request.

Availability

For product availability, please contact your local Owens Corning area sales manager.

	THICKNESS	WIDTHS	LENGTHS
Industrial Blanket 40	1.5"- 7"	24"	48"
Industrial Blanket 60	1"- 7"	24"	48"
Industrial Blanket 80	1"- 7"	24"	48"
Industrial Blanket 100	1.5"- 4"	24"	48"
Tolerances	+¼", -⅛"	Width: ±⅛"	Length: +¾", -¼"

Installation

Thermafiber Inc. recommends mechanical attachment of Industrial Blanket products unless in an enclosed panel.

See Owens Corning publication "Industrial Board Products Installation Instructions" (Pub. No. 10024272) for more information.

Please contact your sales representative or GETTECH@owenscorning.com for further questions.

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.
- Material Health Certificate from Cradle to Cradle Products Innovation Institute. For more information, visit c2ccertified.org.



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.

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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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