



Johns Manville

Marine Insulations

Incombustible Microlite®

Fiber Glass Thermal and Acoustical Blanket

Description

Incombustible Microlite insulation is specifically developed as a thermal and acoustical blanket for use in marine applications. Produced from fine glass fibers and bonded with a thermo-setting resin, it is light weight, highly resilient and has non-settling characteristics.

Advantages

High Thermal Performance. The extremely low conductivity of Incombustible Microlite assures optimum operating efficiency of shipboard heating and air conditioning systems.

Fire Safety. Incombustible Microlite is Coast Guard/IMO Approved 164.109/38/0 as an incombustible material. It also meets the requirements of NFPA 90A and 90B Standards, and has a FHC flame spread of less than 25 and a smoke developed of less than 50 per ASTM E 84.

Noise Control. Incombustible Microlite has excellent sound absorption characteristics to reduce the level of unwanted noise.

Faster Installation. Incombustible Microlite is easily cut and installs with a minimum of effort.

Superior Performance. Properly installed Incombustible Microlite will remain unaffected by age and temperature change.

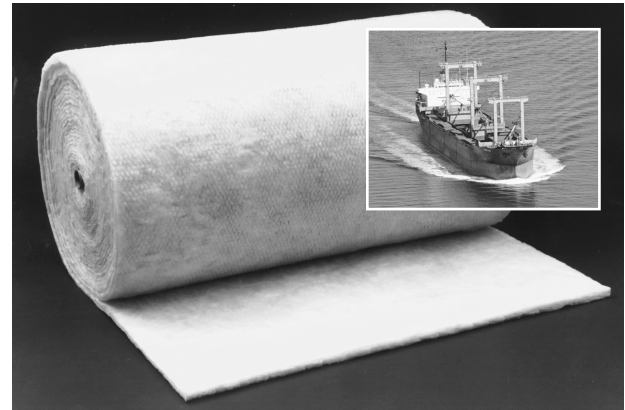
Government Certification

When ordering material to comply with any government, ASTM or listed specification, a statement of that fact must appear on the purchase order. Government regulations and other listed specifications require specific lot testing, and prohibit certification of compliance after shipment has been made. There may be additional charges associated with specification compliance testing.

Thermal Conductivity “(k)”

Mean Temp.	75°F	24°C
	.29*	.042**

Conductivity per ATM C 518: *Btu•in/(hr•ft²•°F) **W/m•°C



Operating Temperature Limit: 400°F (204°C)

Specification Compliance

- Coast Guard/IMO Approved 164.109/38/0
- MIL-I-24244C (Cleburne material only)
- NRC 1.36 (Cleburne material only)
- ASTM C 795
- ASTM C 411 (up to 400°F [204°C])
- ASTM E 84
- Flame Spread – Not exceeding 25
- Smoke Developed – Not exceeding 50
- NFPA 90A and 90B Standards
- ASTM C 1139 Types I & II, Grade 1
(Replaces MIL-I-22023, Types I & II, Class 2)
- ASTM C 356
- ASTM C 553 Types I & II
- ASTM C 1304
- ASTM C 1338
- ASTM C 665 – Corrosion test
- Capillarity – Negligible (after 24 hours)

Sound Absorption Coefficients — ASTM C 423 (Type “F-25” Mounting)

Density		Thickness		Facing	Sound Absorption Coefficient at Frequency (Cycles per Second) of:						
pcf	kg/m³	in.	mm		125	250	500	1000	2000	4000	NRC
0.75	12	1/2	13	Plain	0.13	0.46	0.43	0.60	0.76	0.86	0.55
0.75	12	1	25	Plain	0.15	0.58	0.62	0.75	0.84	0.90	0.70
0.75	12	2	51	Plain	0.30	0.82	0.86	0.98	1.02	1.07	0.90
0.75	12	4	102	Plain	0.64	1.21	1.14	1.10	1.10	1.16	1.15

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Standard Sizes

Standard Width: 48" (1219 mm)*

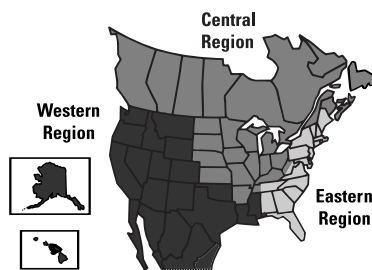
Density		Thickness		Width		Roll Length	
pcf	kg/m ³	in.	mm	in.	mm	ft.	m
0.75	12	1½	38	48	1219	100	30.5
0.75	12	2	51	48	1219	75	22.9
0.75	12	2½	64	48	1219	50	15.3
0.75	12	3	76	48	1219	50	15.3

*Additional widths available on a Special Product Price Inquiry (SPPI) basis.

Note: 3½" to 6" (89 mm to 152 mm) thicknesses available on a Special Product Price Inquiry (SPPI) basis.

ISO 9000 Certification

Johns Manville mechanical insulation products are designed, manufactured and tested in our own facilities, which are certified and registered to stringent ISO 9000 (ANSI/ASQC 90) series quality standards. This certification, along with regular, independent third-party auditing for compliance, is your assurance that Johns Manville products deliver consistent high quality.



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Johns Manville

Performance Materials Division

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The physical and chemical properties of Incombustible Microlite® represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or other materials under actual fire conditions. Check with the Regional Sales Office nearest you to assure current information. **All Johns Manville products are sold subject to Johns Manville's Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy, call the 800 number below.** For information on other Johns Manville thermal insulations and systems and a copy of the Spec-Line® CSI formatted specification, call (800) 654-3103. To access automated fax-on-demand service in the United States and Canada, simply call 1-888-INSULFX (1-888-467-8539) from a phone or fax.