

**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 lightweight, highly resilient and has nonsettling 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 an FHC flame spread of less than 25 and a smoke developed rating 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 ASTM C 518: \*Btu•in/(hr•ft•°F); \*\*W/m•°C



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

**SPECIFICATION COMPLIANCE**

Coast Guard/IMO Approved 164.109/38/0

MIL-DTL-32585

MIL-I-742

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)

\*MIL-DTL-24244D, NRC 1.36, ASTM C 795

\*When ordering material to comply with MIL-I-24244, ASTM C795, or NRC 1.36 a statement of that fact must appear on the purchase order. Specific lot testing will be conducted and a certification of compliance can be provided.

**RECYCLED CONTENT**



**INCOMBUSTIBLE MICROLITE®**  
FIBERGLASS THERMAL AND ACOUSTICAL BLANKET

## DATA SHEET

**SOUND ABSORPTION COEFFICIENTS – ASTM C 423 (TYPE "A" MOUNTING)**

Density		Thickness		Facing	Sound Absorption Coefficient at Frequency (Cycles per Second) of:						
pcf	kg/m <sup>3</sup>	in.	mm		125	250	500	1000	2000	4000	NRC
0.75	12	½	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

**STANDARD SIZES****STANDARD WIDTH: 48" (1219 MM)\***

Density		Thickness		Width		Roll Length	
pcf	kg/m <sup>3</sup>	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 9001:2015 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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Fax: 419-784-7866

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The physical and chemical properties of Incombustible Microlite® listed herein 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 any other materials under actual fire conditions.

**All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville thermal insulation and systems, visit [www.jm.com/terms-conditions](http://www.jm.com/terms-conditions) or call (800) 654-3103.**