



Technical Specifications Incombustible Microlite

Fiberglass Thermal and Acoustic Insulation

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.

Available type

Incombustible Microlite is furnished in standard sizes thicknesses of 1/2" (12mm), 1" (25mm), 2" (51mm) & 4" (102mm). The insulation can be supplied plain or with a range of facing attached.

Applications

As an incombustible material with configuration for a range of military, USCG and IMO approved applications Microlite is suitable for any vessel or other floating application where fire rated materials are required. Microlite is designed specifically to provide thermal and acoustical insulation on hulls, bulkhead and deckheads aboard this wide range of vessels.

ADVANTAGES

High Thermal Performance.

The extremely low thermal 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 (when tested without of facings).

Fast Installation.

Microlite is easy to cut and fit, and can be fabricated with minimal time and effort. Large roll sizes minimize the amount of cutting required and reduce the need for seams that must be taped.

Microlite is a flexible batt material and can be easily formed around beams and other structure.



Specifications*

- Coast Guard/IMO
- Approved 164.109/38/0
- MIL-I-24244C (special order)
- NRC 1.36 (special order)
- 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 I
 - (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

Acoustic Performance

Density		Thickness		Facing	Sound Absorption Coefficient at Frequency						
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	0.6	0.76	0.86	0.55
0.75	12	1	25	Plain	0.15	0.58	0.62	0.75	0.84	0.9	0.7
0.75	12	2	51	Plain	0.3	0.82	0.86	0.98	1.02	1.07	0.9
0.75	12	4	102	Plain	0.64	1.21	1.14	1.1	1.1	1.1	1.15

Thermal Performance

F	C	Btu in(hr*sqft*hr)	W/m C
75	24	0.29	0.042

Operating Temperature

Operating temperature limit 400°F (204°C)



All statements herein are expression of opinion that we believe to be accurate and reliable, but are presented without guaranty or responsibility on our part.



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*specification refer only to unfaced product