

DESCRIPTION

Microlite® B Blanket is a lightweight, flexible, insulating material. This blanket is formed from flame attenuated borosilicate glass fibers and bonded with a thermosetting phenolic resin binder to provide the blanket with strong dimensional stability.

ADVANTAGES

The flame attenuated process used in producing Microlite B Blanket provides uniformly distributed glass fibers with low heat transfer characteristics. This process produces glass fibers with excellent sound absorbing properties.

The thermal and acoustic properties of Microlite B Blanket do not deteriorate with age. The non-cellular and non-hygroscopic glass fibers will not support mold, mildew, fungus, or vermin. The exceptional resiliency of the glass fibers prevents vibrational settling.

The borosilicate fiber used in Microlite B Blanket is incombustible. Although it is light in weight, the blanket provides high tensile strength and resiliency and is easily cut with a knife, shear, or steel rule die.

AVAILABLE FORMS

Microlite B Blankets are furnished in a variety of densities, weights, thicknesses, roll lengths, and widths.

STANDARD SIZES

Microlite B Blanket is available in standard widths of 36" (91 cm) and 72" (183 cm) and standard roll length of 100 ft (30.5 m).

Apparent Density, pcf (kg/m³)	Thickness, in (mm)
0.5 (8)	1 (25)
1.0 (16)	½ (13)
1.0 (16)	1 (25)



TYPE

Flexible Blanket

TEMPERATURE LIMIT

450°F (232°C)

APPLICATIONS

Microlite B Blanket is designed for applications in which good thermal and acoustic properties are required and where temperatures are not in excess of 450°F (232°C). It is ideally suited for use in aircraft and other equipment applications where the higher performance characteristics of Microlite® AA are not required.

- Aircraft
- Equipment

PROPERTIES

- High Sound Absorption
- Flame Resistance
- Low Heat Transfer
- Good Handleability

MICROLITE® B BLANKET

FIBERGLASS THERMAL AND ACOUSTIC INSULATION

DATA SHEET

THEMAL CONDUCTIVITY (Btu • in.)/(ft.² • hr. • °F) (ASTM C-518)

Density (pcf)	Mean Temp. °F (between hot surface and cold surface)			
	75°	200°	300°	350°
0.5	0.31	0.44	0.63	0.72
1.0	0.25	0.33	0.44	0.53

THEMAL CONDUCTIVITY (Watt/Meter • °C) (ASTM C-518)

Density kg/m ³	Mean Temp. °C (between hot surface and cold surface)			
	24°	93°	149°	177°
8.0	0.043	0.059	0.081	0.097
16.0	0.036	0.048	0.064	0.077

ACOUSTIC PERFORMANCE (ASTM C-423, TYPE "A" MOUNTING) SOUND ABSORPTION COEFFICIENTS

Density		Thickness		Frequency (Hz)						
pcf	kg/m ³	in	mm	125	250	500	1000	2000	4000	NRC*
0.5	(8.0)	1.0	(25)	0.06	0.23	0.47	0.64	0.79	0.88	0.55
1.0	(16.0)	0.5	(13)	0.18	0.43	0.40	0.53	0.67	0.78	0.50
1.0	(16.0)	1.0	(25)	0.26	0.51	0.59	0.77	0.88	0.94	0.70

Compliance with Government & External Specs: ASTM C-800 (replacing MIL-B-5924)

*Noise Reduction Coefficient.



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PRODUCT & TECHNICAL INFORMATION

800-654-3103

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of Microlite B Blanket 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. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

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