



Microlite® B Blanket

Fiber Glass Thermal and Acoustical Insulation

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.

Applications

Microlite® B Blanket is designed for applications in which good thermal and acoustical 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.

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 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.

The thermal and acoustical 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.



Type:
Flexible Blanket

Temperature Limit:
450°F (232°C)

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).

Density, pcf (kg/m ³)	Thickness, in (mm)
0.5 (8)	1" (25)
0.5 (8)	2" (51)
1.0 (16)	1/2" (13)
1.0 (16)	1" (25)

Applications

- Aircraft
- Equipment

Properties

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

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Thermal Conductivity (Btu-in)/(ft²-hr-°F) (ASTM C-518)

Density, pcf	Mean Temp. °F (between hot surface and cold surface)			
	75°	200°	300°	350°
0.5	.31	.44	.63	.72
1.0	.25	.33	.44	.53

Thermal 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	.043	.059	.081	.097
16.0	.036	.048	.064	.077

Acoustical Performance (ASTM C-423, Type A Mounting)

Sound Absorption Coefficients

Density, pcf, (kg/m ³)	Thickness, Inches, (mm)	Frequency (Hz)							
		125	250	500	1000	2000	4000	NRC	
0.5 (8.0)	1.0 (25)	.06	.23	.47	.64	.79	.88	.55	
0.5 (8.0)	2.0 (51)	.33	.66	.81	.91	.96	.94	.85	
1.0 (16.0)	0.5 (13)	.18	.43	.40	.53	.67	.78	.50	
1.0 (16.0)	1.0 (25)	.26	.51	.59	.77	.88	.94	.70	

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

■ For Information

Write: Johns Manville Product Information Center, P.O. Box 5108, Denver, Colorado 80217-5108

Call: Toll free 1-800-654-3103 (outside Colorado); or (303) 978-4900 (inside Colorado)

Online: www.jm.com

■ Limited Warranty

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, write to:

Johns Manville Product Information Center
P.O. Box 5108
Denver, CO 80217-5108

or call toll free 1-800-654-3103, or contact your local Johns Manville sales representative.



Johns Manville

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The physical and chemical properties of Johns Manville Microlite® B Blankets represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. The data is supplied as a technical service and is subject to change without notice. Check with your Johns Manville representative to obtain current information.