

DESCRIPTION

Unbonded Microlite® B Blanket is a lightweight, binderless insulating blanket designed for thermal and acoustic applications in which intermittent temperatures may reach as high as 1000°F (538°C). This loosely felted, nonresilient blanket is formed from flame attenuated borosilicate glass fibers without binders and oils and is not dimensioned by thickness.

ADVANTAGES

The flame attenuated glass fibers used in Unbonded Microlite B Blanket provide low heat transfer as well as exceptional sound absorbing characteristics.

The absence of binders and oils eliminates potential contamination from outgassing or binder vaporization during elevated temperature service.

Unbonded Microlite B Blanket is adaptable to flat, curved and irregular surfaces and is readily cut with ordinary tools. Being unbonded, the blanket should be packed or contained to prevent settling.

AVAILABLE FORMS

Unbonded Microlite B Blanket is manufactured by weight. The B-010 size blanket has a nominal weight of 0.0625 lbs/ft² (306 gm/m²). These blankets are available in standard widths of 36" (91 cm) and 72" (183 cm) and standard roll length of 100 ft (30.5 m).



TYPE

Binderless Blanket

TEMPERATURE LIMIT

850°F (454°C)

APPLICATIONS

Because of its binderless construction, Unbonded Microlite B Blanket eliminates outgassing or binder vaporization in such applications as cold face insulation in thermal fabrications for aircraft engines or thermal insulation in solar collectors. In all applications, Unbonded Microlite B Blanket provides excellent thermal and acoustic performance while withstanding temperatures up to 1000°F (538°C) for short-term exposure and up to 850°F (454°C) for continuous exposure.

- Aircraft Engines
- Solar Collectors

PROPERTIES

- No Outgassing
- Excellent Thermal Performance
- High Temperature Service
- Easily Conforms to Irregular Surfaces

UNBONDED MICROLITE® B BLANKET

UNBONDED FIBERGLASS THERMAL AND ACOUSTIC INSULATION

DATA SHEET

THERMAL CONDUCTIVITY (Btu • in)/(ft² • hr • °F) (ASTM C-518)

Density (pcf)*	Mean Temp. °F (between hot surface and cold surface)					
	75°	100°	200°	400°	600°	800°
1.5	0.23	0.24	0.31	0.48	0.71	1.03
3.0	0.21	0.22	0.26	0.39	0.54	0.72
4.5	0.21	0.21	0.25	0.34	0.45	0.59

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

Density kg/m ³ *	Mean Temp. °C (between hot surface and cold surface)					
	24°	38°	93°	204°	315°	427°
24.0	0.033	0.035	0.045	0.069	0.103	0.149
48.0	0.030	0.032	0.038	0.056	0.078	0.104
72.0	0.030	0.030	0.036	0.049	0.065	0.085

*Unbonded Microlite B Blanket is not dimensioned and is unresilient regarding thickness. Therefore density references are given only as examples to illustrate typical performance at various hypothetical applied densities and is not necessarily the density of the product as produced or shipped.

LINEAR SHRINKAGE

When tested in accordance with requirements of ASTM C-356, the linear shrinkage of Unbonded Microlite B Blanket is not detectable at temperatures up to 450°F (204°C) and will not exceed 0.5% at temperatures up to 800°F (427°C).



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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 Unbonded B Microlite 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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