

DESCRIPTION

Unbonded Microlite® AA Blanket is a lightweight, binder-less 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 AA 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 AA Blanket is adaptable to flat, curved and irregular surfaces and readily cut with ordinary tools. Being unbonded, the blanket should be packed or contained to prevent settling.

AVAILABLE FORMS

Unbonded Microlite AA Blanket has a nominal weight of 0.05 lb/ft² (244 gm/m²). These blankets are available in standard widths of 36" (91 cm) and 72" (183 cm) and 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 AA 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 AA 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
- Equipment

PROPERTIES

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

UNBONDED MICROLITE® AA 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)					
	50°	75°	100°	200°	300°	400°
0.6	0.24	0.25	0.27	0.35	0.42	0.55

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

Density kg/m ³	Mean Temp. °C (between hot surface and cold surface)					
	10°	24°	38°	93°	149°	204°
9.6	0.035	0.036	0.039	0.051	0.061	0.079

LINEAR SHRINKAGE

When tested in accordance with requirements of ASTM C-356, the linear shrinkage of Unbonded Microlite AA 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

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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 Microlite AA 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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