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

<table>
<thead>
<tr>
<th>Density (pcf)</th>
<th>Mean Temp. °F (between hot surface and cold surface)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.6</td>
<td>50° 75° 100° 200° 300° 400°</td>
</tr>
<tr>
<td></td>
<td>0.24 0.25 0.27 0.35 0.42 0.55</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Density kg/m³</th>
<th>Mean Temp. °C (between hot surface and cold surface)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.6</td>
<td>10° 24° 38° 93° 149° 204°</td>
</tr>
<tr>
<td></td>
<td>0.035 0.036 0.039 0.051 0.061 0.079</td>
</tr>
</tbody>
</table>

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).