

## DESCRIPTION

Microlite® AA Uncured Insulation consists of flame-attenuated borosilicate glass fibers bonded with an uncured thermosetting resin. This insulation material is designed for molding into specified shapes and densities.

## ADVANTAGES

Microlite AA Uncured Insulation can be molded into a wide range of sizes, shapes, densities and thicknesses to fit odd-shaped parts, special configurations, and applications in which precise insulation fit is critical.

It can be molded into high densities, for applications in which rigidity and structural strength are required, or lower densities for more flexible applications. Microlite AA Uncured also can be used for laminating specialty or decorative facings directly to the insulation material.

## AVAILABLE FORMS

Microlite AA Uncured is furnished in cut sheets, with a choice of three binder types: Plain Phenolic, a thermosetting resin binder for hot face service temperatures to 450°F (232°C); Water Repellent Phenolic, a thermosetting resin binder with an additive to provide water resistance in applications with hot face service temperatures to 450°F (232°C); and Silicone, a silicone organic base resin binder for hot face service temperatures up to 700°F (371°C).

## STANDARD SIZES

Microlite AA Uncured insulation is available in sheet form with 50" (127 cm) by 72" (183 cm) dimensions for product with Plain Phenolic and Water Repellent Phenolic binders, and 38" (97 cm) by 72" (183 cm) dimensions for product with silicone binder. See Physical Properties on the following page for additional details.



## TYPE

Bonded Molding Blanket

## TEMPERATURE LIMIT

Plain Phenolic: 450°F (232°C)

Water Repellent Phenolic: 450°F (232°C)

Silicone: 700°F (371°C)

With all three binders, the cured product will show no signs of punking below the recommended service temperature limit. However, this maximum service temperature may be affected by conditions such as the thickness and density of the part, and may vary from the suggested values.

## APPLICATIONS

After proper curing, the molded or sized insulating material is excellent for aerospace or high temperature equipment applications in which space and weight considerations are critical and where good thermal and acoustic properties are required. Because of its diverse sizing capabilities, it can be used for configurations or densities not obtainable with cured Microlite AA Blanket Insulation.

- Aerospace
- Equipment

## PROPERTIES

- Excellent Acoustic Properties
- Flexible Molding
- Excellent Thermal Resistance

# MICROLITE® AA UNCURED

## MOLDABLE FIBERGLASS INSULATION

### DATA SHEET

#### PHYSICAL PROPERTIES

<b>Binder Type</b>	<b>Cured Color</b>	
Uncured Phenolic	Yellow	
Uncured Silicone	Tan	
Uncured Water Repellent	Orange	
<b>Weight</b>	<b>psf</b>	<b>gms/m<sup>2</sup></b>
Uncured	0.027	132
Cured	0.025	122
<b>Moisture Content</b>	<b>%, by weight</b>	
Uncured Phenolic	5.0 – 11.0	
Uncured Silicone	2.0 – 6.0	
Uncured Water Repellent	5.0 – 11.0	
<b>Binder Content</b>	<b>% (±5), loss on ignition</b>	
Uncured Phenolic	25	
Uncured Silicone	15	
Uncured Water Repellent	21	
<b>Fiber Diameter</b>	<b>Micronaire</b>	
Inches	0.00003 - 000065	
Microns	0.76 - 1.65	

#### RECOMMENDED STORAGE CONDITIONS

Weather and storage conditions greatly affect the uncured material. Microlite AA Uncured with plain phenolic and water repellent binder must be stored at 40° to 50°F (4° to 10°C), with relative humidity between 30 to 90% to retain molding characteristics for a maximum of 30 days from the date of manufacture. Microlite AA Uncured with silicone binder should be stored out of direct sunlight at an ambient room temperature not to exceed 80°F to retain molded characteristics for a maximum of six months from date of manufacture.



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#### INSULATION SYSTEMS OEM INSULATIONS

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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 AA Uncured 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.

**All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville thermal insulation and systems, visit [www.jm.com/terms-conditions](http://www.jm.com/terms-conditions) or call (800) 654-3103.**