



Microlite® AA Uncured

Moldable Fiber Glass Insulation

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.

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 acoustical 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.

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 either cut sheets or rolls, 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).



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

- Aerospace
- Equipment

Properties

- Excellent Acoustical Properties
- Flexible Molding
- Excellent Thermal Resistance

Microlite® AA Uncured

Moldable Fiber Glass Insulation

Physical Properties

<u>Binder Type</u>	<u>Color</u>	
Uncured Phenolic	White	
Uncured Silicone	Pink	
Uncured Water Repellent	Orange	
<u>Weight (± 10%)</u>	<u>psf</u>	<u>gms/m²</u>
Uncured	.027	132
Cured	.025	122
<u>Moisture Content</u>	<u>%, by weight</u>	
Uncured Phenolic	5.0 – 11.0	
Uncured Silicone	2.0 – 6.0	
Uncured Water Repellent	5.0 – 11.0	
<u>Binder Content</u>	<u>% (±5), loss on ignition</u>	
Uncured Phenolic	25	
Uncured Silicone	15	
Uncured Water Repellent	21	
<u>Fiber Diameter</u>	<u>Micronaire</u>	
Inches	.00003 - 000065	
Microns	.76 - 1.65	

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.

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.

■ 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

Johns Manville
Performance Materials
P.O. Box 5108
Denver, CO 80217-5108
Internet: www.jm.com

The physical and chemical properties of Johns Manville Microlite® AA Uncured 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.