

DESCRIPTION

Micromat® liner is a flexible, resilient, blanket-type fiberglass insulation faced on one side with a smooth, durable, nonwoven fiberglass mat. It is recommended specifically for use as a thermal and acoustical control liner in HVAC equipment. It is also suited for other equipment applications requiring effective thermal and acoustical control, low air friction, damage resistance and attractive appearance.

The countless air spaces in Micromat liner create effective sound absorption as well as thermal properties. Perceived noise from air movement and mechanical equipment is noticeably reduced.

FEATURES

The borosilicate glass fibers that make up Micromat liners are noncombustible and non-hygroscopic. Micromat liner does not support fungi or vermin. Micromat liner is unaffected by oil, grease and most acids.

The high tensile strength inherent in Micromat liners helps the product resist damage during fabrication and installation.

Because of their resiliency and flexibility, Micromat liners resist settling, breakdown, sagging from vibration, and damage from impact.

This product is easily die-cut, trimmed and packaged to specified configurations.

STANDARD THICKNESSES AND DENSITIES

Type	Density		Thicknesses		Roll Length	
	pcf	kg/m ³	in	mm	ft	m
Micromat 26	1.0	16	¾, 1	19, 25	100	30.5
Micromat 25	1.2	19	1	25	100	30.5
	1.3	21	½	13	200	61.0
Micromat 24	1.5	24	½	13	200	61.0
			¾, 1	19, 25	100	30.5
			1½	38	50	15.2
Micromat 23	2.0	3.2	½	13	200	61.0

CUSTOM FABRICATION

The Johns Manville nationwide network of Approved Fabricators specializes in secondary processing to supply custom parts to meet specific customer requirements. Die-cutting, laminating, special packaging and just-in-time delivery are just a few of the multiple capabilities our fabricators can provide.



SPECIFICATIONS

Temperature Limit	250°F (121°C)
Fire Hazard Classification ASTM E84, UL 723, and CAN/ ULC S102, Meets NFPA 90A and 90B	25 Flame Spread 50 Smoke Developed
Maximum Air Velocity	5,000 fpm (25.4 m/sec) and tested at two and one-half times (12,500 fpm [63.5 m/sec]) this velocity. Meets the erosion requirements of UL 181.
ASTM C1071	Conforms to the physical properties and regulations of ASTM C1071-2000, including corrosiveness when tested per ASTM C665 against copper, aluminum and galvanized steel.

APPLICATIONS

- Air Conditioners
- Furnaces
- VAV Boxes
- Roof Curbs
- Other HVAC Equipment

ADVANTAGES

- High Thermal and Acoustical Performance
- Resistant to Air Erosion
- Ease of Handling, Fabrication and Installation
- Abuse Resistant

THERMAL CONDUCTIVITY (K) PER ASTM C518

Type	Mean Temp. @ 75°F (24°C)	
	Btu•in/(hr•ft²•°F)	W/m•°C
Micromat 26	0.26	0.037
Micromat 25	0.25	0.036
Micromat 24	0.24	0.035
Micromat 23	0.23	0.033

ACOUSTICAL PERFORMANCE

Type "A" Mounting Sound Absorption Coefficients*

Type	Thicknesses		Frequency (Hz)						
	in	mm	125	250	500	1000	2000	4000	NRC**
Micromat 26	1	25	0.09	0.29	0.56	0.73	0.84	0.92	0.60
Micromat 25	1	25	0.11	0.30	0.62	0.80	0.93	1.00	0.65
	½	13	0.06	0.14	0.34	0.52	0.66	0.77	0.40
Micromat 24	½	13	0.08	0.15	0.37	0.55	0.70	0.79	0.45
	¾	19	0.06	0.16	0.43	0.63	0.75	0.89	0.50
	1	25	0.16	0.37	0.66	0.83	0.91	0.91	0.70
	1½	38	0.12	0.41	0.82	0.95	1.01	1.00	0.80
Micromat 23	½	13	0.06	0.13	0.35	0.55	0.70	0.78	0.45

*Tested in accordance with ASTM C423, Type "A" mounting per ASTM E795.

**Noise Reduction Coefficient.



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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 Micromat 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 www2.jm.com/terms-conditions or call (800) 654-3103.