

**Micromat®**  
HVAC Equipment Liner

**Description**

Micromat liner is a flexible, resilient, blanket-type fiber glass insulation faced on one side with a smooth, durable, nonwoven fiber glass 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.

Micromat liner can be used in a variety of applications that require good thermal and acoustical efficiency in a minimal space.

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.

It is rated for a maximum air velocity of 5,000 fpm (25.4 m/sec). This product is easily die-cut, trimmed and packaged to specified configurations.

**Advantages**

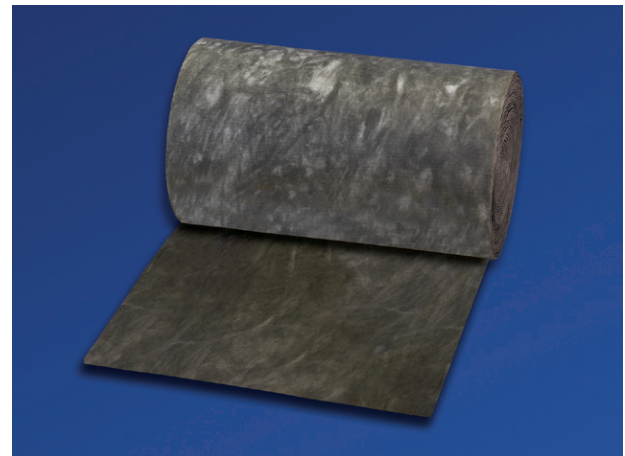
The borosilicate glass fibers that make up Micromat liners are noncombustible and non-hygroscopic. Micromat liner does not support fungi or vermin. Micromat liner is unaffected by oil, grease and most acids.

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.

**Available Forms**

Micromat liners are available in a variety of thicknesses and densities as specified below. See Micromat Purchase Guide MM-IS-280 for specific details.



**Custom Fabrication**

In addition to the standard dimensions, a JM-approved fabricator can provide specially cut pieces and shapes to customer specifications.

**Fabricated Products**

Micromat liners are manufactured to specific customer width requirements. Contact your Johns Manville sales representative for limitations. Die-cut or fabricated pieces are supplied by one of the strategically located Johns Manville fabricators that are specially equipped to provide prompt service to OEM manufacturers in their area.

**Applications**

- Air conditioners
- Furnaces
- Vav boxes
- Roof curbs
- Other HVAC equipment

**Properties**

- High thermal and acoustical performance
- Resistant to air erosion
- Ease of handling, fabrication and installation
- Abuse resistant

**Specifications**

Temperature Limit	250°F (121°C)
Fire Hazard Classification	25/50 (per ASTM E84, UL 723, and CAN/ULC S102-M88). Labels supplied when requested on order. Meets NFPA 90A and 90B.
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	Micromat liner has been tested and conforms to the physical properties and regulations of ASTM C1071-2000, including corrosiveness when tested per ASTM C665 against copper, aluminum and galvanized steel.

**Standard Thicknesses and Densities**

Type	Density Reference		Available Thicknesses		Available Roll Length	
	pcf	kg/m <sup>3</sup>	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
Micromat 24	1.3	21	½	13	200	61.0
			½	13	200	61.0
Micromat 23	1.5	24	¾, 1	19, 25	100	30.5
			1½	38	50	15.2
Micromat 23	2.0	32	½	13	200	61.0



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### Thermal Conductivity (k) Per ASTM C518

Type	75°F (24°C) Mean Temperature	
	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

### Sound Absorption Coefficients (Type "A" Mounting)

Type	Thicknesses		Frequency (Hz)						
	in.	mm	125	250	500	1,000	2,000	4,000	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
Micromat 23	1½	38	0.12	0.41	0.82	0.95	1.01	1.00	0.80
	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.

### Insulation Systems, OEM Insulations

For OEM Customer Service: (800) 426-2435 | For Product and Technical Information: (800) 654-3103



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The physical and chemical properties of Micromat® HVAC Equipment Liner Insulation 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. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by this or any other materials under actual fire conditions. Check with the Regional Sales Office nearest you to assure current information. **All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions including Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions, Limited Warranty and Limitation of Remedy, and information on other Johns Manville thermal insulations and systems, call (800) 654-3103.**