

Valulite™
HVAC Equipment Liner

Description

Valulite™ Fiber Glass Insulation is a lightweight, highly resilient blanket-type thermal and acoustical insulation made from borosilicate glass fibers bonded with a thermosetting resin. Valulite is designed in the tradition of Microlite® to meet specific requirements of the HVAC equipment industry and other OEM applications.

Cost Effective Thermal and Acoustical Alternative

Through control of fiber diameter and product density, Valulite is available in two levels of thermal conductivity: Valulite-24 (k=0.24) and Valulite-25 (k=0.25).

Valulite-24 and Valulite-25 also provide excellent acoustical performance.

Appliance and Equipment Applications

The glass fibers that make up Valulite insulation are incombustible and non-hygroscopic. Valulite does not support fungi or vermin, and is unaffected by oil, grease, and most acids.

The high tensile strength inherent in Valulite blankets helps the product resist damage during lamination and installation. Because of their resiliency and flexibility, Valulite blankets resist settling, breakdown, sagging from vibration, and damage from impact. Valulite insulation forms easily around corners and curved surfaces and is readily cut in die presses or with a knife.

Valulite is compression packaged (VacPac) to significantly reduce volume resulting in potential savings in freight and storage costs.

Available Forms

See Valulite Purchase Guide VL-IS-340 for specific details.

Custom Fabrications

A Johns Manville Approved Fabricator can develop and apply facings for airstream applications as well as fabricate to meet your specific service conditions and performance requirements.



Fabricated Products

Johns Manville Valulite Thermal and Acoustical Insulation is manufactured to specific customer width requirements. Contact your Johns Manville sales representative for limitations. Die-cut or fabricated pieces are generally supplied by one of the strategically located Johns Manville fabricators which is specially equipped to provide prompt service to manufacturers in their area.

Applications

- HVAC Equipment
- Acoustical Panels/Partitions
- Pipe Wrap Kits
- Appliances
- Other Equipment

Properties

- Good Thermal Efficiency
- Good Acoustical Performance
- Good Tensile Strength
- Uniform Density Distribution
- Excellent Dimensional Uniformity
- Ease of Handling

Specifications

Temperature Limit	350°F (177°C) (unfaced)
Meets Requirements of ASTM C 1071 Type 1	
Fire Hazard Classification (FHC)	25/50 (per ASTM E 84, UL 723 and CAN/ULC S102-M88). Labels supplied when requested on order. Meets NFPA 90A and 90B.

Maximum Air Velocity Depends on Facing Applied.

Density*

Type	pcf	kg/m ³
Valulite-25	1.3	21
Valulite-24	1.6	26

* Density values are approximate. The density is adjusted to meet the specified thermal conductivity.

Thermal Conductivity (k)

Type	Mean Temperature @ 75°F (24°C)	
	Btu•in/(hr•ft ² •°F)	W/m•°C
Valulite-25	0.25	0.036
Valulite-24	0.24	0.035

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Acoustical Performance

Sound Absorption Coefficients*

Type "A" Mounting

Thickness		Frequency (Hz)						
in.	mm	125	250	500	1000	2000	4000	NRC**
Valulite-25								
¾	19	0.08	0.25	0.46	0.58	0.76	0.81	0.50
1	25	0.05	0.30	0.59	0.79	0.89	0.97	0.65
Valulite-24								
½	13	0.05	0.13	0.31	0.53	0.68	0.83	0.40
¾	19	0.05	0.23	0.47	0.72	0.86	0.95	0.55
1	25	0.05	0.30	0.63	0.85	0.95	1.01	0.70

* Tested in accordance with ASTM C 423-84a and ASTM E 795-83.

** Noise Reduction Coefficient



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Fax: (800) 329-7397

Western Region & Canada

P.O. Box 625005
Littleton, CO 80162
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Fax: (800) 741-0183

Technical Information

(800) 458-7198

The physical and chemical properties of Valulite™ Thermal and Acoustical 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 these 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.**

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