

Tuf-Glas®/Valulite®
HVAC Equipment Liner

Description

Tuf-Glas®/Valulite® fiber glass insulation is a lightweight, highly resilient, blanket-type insulation made from borosilicate glass fibers bonded with a thermosetting resin. Tuf-Glas/Valulite is designed to provide a rotary product with good core strength.

Thermal and Acoustical Solution

Tuf-Glas/Valulite can be used in a variety of applications that require good thermal and acoustical efficiency in a minimal space.

Appliance and Equipment Applications

The glass fibers in Tuf-Glas/Valulite insulation are noncombustible and non-hygroscopic. Tuf-Glas/Valulite does not support fungi or vermin, and is unaffected by oil, grease and most acids.

Tuf-Glas/Valulite meets typical industry standard for tensile and core strength, which makes the product resistant to damage during lamination and installation. Because of its resiliency and flexibility, Tuf-Glas/Valulite blankets resist settling, breakdown, sagging from vibration and damage from impact. Tuf-Glas/Valulite insulation conforms easily around corners and curved surfaces and is readily cut in die presses or with a knife.

Available Forms

Tuf-Glas/Valulite is available in a variety of densities, thicknesses, widths and roll lengths.

Custom Fabrications

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

Fabricated Products

Johns Manville Tuf-Glas/Valulite equipment 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 who are specially equipped to provide prompt service to manufacturers in their area.

Specifications

Temperature Limit	350°F (177°C) (unfaced)
Meets Requirements of ASTM C1071, Type I, Rolls (with the exception of air erosion resistance)	
Fire Hazard Classification (FHC)	25/50 Flame Spread/Smoke Developed Ratings (per ASTM E84, UL 723, and CAN/ULC S102-M88). Labels supplied when requested on order. Meets NFPA 90A and 90B.
Specifications	Maximum air velocity depends on facing applied



Applications

- HVAC Equipment
 - Fan Coils
 - Furnaces
 - Air Conditioners
- Appliances
- Other Equipment

Properties

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



Standard Densities

Type	pcf	kg/m3
Tuf-Glas/Valulite 25	1.3	21
Tuf-Glas/Valulite 24	1.6	26

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

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Thermal Conductivity (k) per ASTM C618

Type	Density		Mean Temp @ 75°F (24°C)	
	pcf	kg/m ³	BTU	W/m
Tuf-Glas/Valulite 25	1.3	21	0.250	0.036
Tuf-Glas/Valulite 24	1.6	26	0.240	0.035

Acoustical Performance

Sound Absorption Coefficients*

Type "A" Mounting

Type	Density		Thickness		Frequency (Hz)						
	pcf	kg/m ³	BTU	W/m	125	250	500	1000	2000	4000	NRC**
Tuf-Glas/Valulite 25	1.3	21	1	25	0.09	0.25	0.55	0.73	0.84	0.99	0.60
Tuf-Glas/Valulite 24	1.6	26	½	13	0.05	0.13	0.31	0.53	0.68	0.83	0.40
Tuf-Glas/Valulite 24	1.6	26	1	25	0.12	0.30	0.59	0.79	0.91	0.94	0.65

*Tested in accordance with ASTM C423 and ASTM E795.

**Noise reduction coefficient.



OEM Insulation Systems Customer Service: (800) 426-2435 **Product and Technical Information:** (800) 654-3103

The physical and chemical properties of Tuf-Glas®/Valulite® 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 ensure 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, visit our website at JM.com or call **1-800-654-3103** | 717 17th Street Denver, CO 80202

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