

DESCRIPTION

Tuf-Glas®/ Valulite® fiberglass insulation is a lightweight, highly resilient, blanket made from borosilicate glass fibers bonded with a thermosetting resin. Tuf-Glas/Valulite is manufactured using a rotary process which provides good core strength.

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

The glass fibers in Tuf-Glas/Valulite 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. The blanket conforms easily around corners and curved surfaces and is readily cut in die presses or with a knife.

STANDARD THICKNESSES & DENSITIES

| Type | pcf | kg/m ³ | Thickness (in) |
|----------------------|-----|-------------------|----------------|
| Tuf-Glas/Valulite 25 | 1.3 | 21 | ½ - 1 |
| Tuf-Glas/Valulite 24 | 1.6 | 26 | |

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 | 350°F (177°C) |
| ASTM C1071, Type I, Rolls | Meets Requirements with the exception of air erosion resistance |
| 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 | Depends on facing applied |

APPLICATIONS

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

ADVANTAGES

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

THERMAL CONDUCTIVITY (K) PER ASTM C518

| Type | Density | | Mean Temp @ 75°F (24°C) | |
|----------------------|---------|-------------------|---------------------------------|--------|
| | pcf | kg/m ³ | Btu•in/(hr•ft ² •°F) | W/m•°C |
| Tuf-Glas/Valulite 25 | 1.3 | 21 | 0.250 | 0.036 |
| Tuf-Glas/Valulite 24 | 1.6 | 26 | 0.240 | 0.035 |

ACOUSTICAL PERFORMANCE

Type "A" Mounting Sound Absorption Coefficients*

| Type | Density | | Thicknesses | | Frequency (Hz) | | | | | | |
|----------------------|---------|-------------------|-------------|----|----------------|------|------|------|------|------|-------|
| | pcf | kg/m ³ | in | mm | 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, Type "A" mounting per ASTM E795.

**Noise Reduction Coefficient.



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**PRODUCT & TECHNICAL
INFORMATION**

800-654-3103

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 Tuf-glass/Valulite 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.