DESCRIPTION

1000 Series Spin-Glas insulation is a 3.0 pounds per cubic foot (48 kg/m³), semi-rigid board produced by a unique felting process that combines Spin-Glas fiber and controlled amounts of organic binder into an insulation with superior handling properties and insulating effectiveness at minimum cost.

APPLICATIONS

For insulating furnaces, boilers, heated vessels, ducts, tanks and other heated equipment operating at temperatures up to 850°F (454°C).

AVAILABLE SIZES

Furnished in board form only in thicknesses from 1” to 4” (25 mm to 102 mm) in ½” (13 mm) increments. Standard sizes available are 24” x 48”, 48” x 96” (0.61 m x 1.22 m and 1.22 m x 2.44 m). Other sizes are available on special order.

ADVANTAGES

High Strength. Because of its unique fiber orientation and the latest advances in binder technology, 1000 Series Spin-Glas insulation exhibits excellent handling properties during shipping and installation and can stand up to the rigors of heavy vibration when in use.

Easy Application. The firm, lightweight structure of this board makes possible the impaling of insulation directly on studs or clips and permits use of labor-saving, larger batt sizes.

Full Size Range. Wide variety of standard sizes eliminates trimming during installation, reducing application costs.

Excellent Thermal Performance. 1000 Series Spin-Glas insulation can dramatically reduce heat loss in heated-equipment applications because of its exceptionally low, dependable thermal conductivity.

THERMAL CONDUCTIVITY (K)

<table>
<thead>
<tr>
<th>Mean Temp. °F</th>
<th>75</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>°C</td>
<td>24</td>
<td>149</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Btu•in/(hr•ft²•°F)</th>
<th>0.23</th>
<th>0.33</th>
</tr>
</thead>
<tbody>
<tr>
<td>W/m•°C</td>
<td>0.033</td>
<td>0.048</td>
</tr>
</tbody>
</table>

Operating Temperature Limit: 850°F (454°C)

QUALIFICATIONS FOR USE

1. 1000 Series Spin-Glas insulation may be used to 850°F (454°C) with a maximum thickness of 6” (152 mm). Double-layer construction with staggered joints is recommended when equipment expansion is such that gaps begin to open between insulation sections (usually 400–600°F [204–316°C]).
SPECIFICATION COMPLIANCE (REQUEST FOR CERTIFICATION MUST ACCOMPANY PURCHASE ORDER.)

Government Coast Guard ASTM
MIL-I-22023D for Type I & II, Class 6 Material 164.109/37/0 C612, Type II
MIL-DTL-32585
HH-I-558B*
Form A, Classes 1, 2 and 3
*Replaced by ASTM C612
CAN/51-GP-10M
C795**
E84 Flame Spread – 25 or less
Smoke Developed – 50 or less
E136 (noncombustible)

MIL-DTL-24244D**
NRC 1.36**

**When ordering material to comply with these specifications a statement of that fact must appear on the purchase order. Specific lot testing will be conducted and a certification of compliance can be provided.

SOUND ABSORPTION COEFFICIENTS (ASTM C423) (TYPE "A" MOUNTING)

<table>
<thead>
<tr>
<th>Thickness (in)</th>
<th>Frequency (Hz)</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>NRC*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td></td>
<td>0.05</td>
<td>0.31</td>
<td>0.67</td>
<td>0.96</td>
<td>1.04</td>
<td>1.03</td>
<td>0.75</td>
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<tr>
<td>2.0</td>
<td></td>
<td>0.24</td>
<td>1.05</td>
<td>1.16</td>
<td>1.12</td>
<td>1.08</td>
<td>1.07</td>
<td>1.10</td>
</tr>
<tr>
<td>3.0</td>
<td></td>
<td>0.58</td>
<td>1.21</td>
<td>1.11</td>
<td>1.08</td>
<td>1.07</td>
<td>1.08</td>
<td>1.10</td>
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<tr>
<td>4.0</td>
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<td>0.92</td>
<td>1.15</td>
<td>1.09</td>
<td>1.07</td>
<td>1.07</td>
<td>1.09</td>
<td>1.10</td>
</tr>
</tbody>
</table>

*Noise Reduction Coefficients: The average of the coefficients at 250, 500, 1000 and 2000 Hz expressed to the nearest integral multiple of 0.05.

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 1000 Series Spin-Glas 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 www.jm.com/terms-conditions or call (800)654-3103.

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