

**SG Series Spin-Glas®**

*Fiber Glass Insulation*

**Description**

SG Series Spin-Glas® insulation is an efficient thermal and acoustical blanket made from rotary-process glass fibers bonded with a thermosetting resin.

The range of density and thickness of SG Series Spin-Glas permits the optimization of thermal, acoustical, and space requirements. These resilient fiber glass blankets resist damage and are easily cut with a knife, shear, or steel rule die. The blankets do not contribute to or absorb odors and carry UL Fire Hazard Classification 25/50. The insulation readily conforms to curved and irregular shapes.

**Applications**

This product was developed specifically for freezers, refrigerators, and other low and medium temperature appliances operating up to 350°F (177° C). Also ideal for use in double-wall HVAC equipment.

**Available Forms**

SG Series Spin-Glas is available in rolls in a wide range of thicknesses and densities. Densities are adjusted to meet thermal conductivity requirements. See Spin-Glas Product Guide SG-IS-300 for specific details.

**Custom Fabrication**

In addition to standard dimensions, a Johns Manville Approved Fabricator can provide specially cut shapes and pieces to particular customer specifications.



**Fabricated Products**

SG Series Spin-Glas 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 strategically located Johns Manville fabricators, specially equipped to provide prompt service to manufacturers in their areas.

**Applications**

- Refrigerators and Freezers
- Transportation
- Water Heater Retrofit Kits
- Dishwashers
- HVAC Equipment
- Other Appliances

**Specifications**

|                                  |  |
|----------------------------------|--|
| Temperature Limit                | 350°F (177°C)  |
| Fire Hazard Classification (FHC) | 25/50 (per ASTM E84 and UL 723 and CAN/ULC S102-M88). Labels supplied when requested on order. Meets NFPA 90A and 90B. |

**Thermal Conductivity (k) Per ASTM C518**

| Type  | Density |                   | 75°F (24°C) Mean Temp.          |        |
|-------|---------|-------------------|---------------------------------|--------|
|       | pcf     | kg/m <sup>3</sup> | Btu•in/(hr•ft <sup>2</sup> •°F) | W/m•°C |
| SG-34 | 0.60    | 10                | 0.34                            | 0.049  |
| SG-32 | 0.65    | 11                | 0.32                            | 0.046  |
| SG-30 | 0.75    | 12                | 0.30                            | 0.043  |
| SG-28 | 0.85    | 14                | 0.27                            | 0.039  |
| SG-26 | 1.04    | 17                | 0.26                            | 0.037  |
| SG-25 | 1.20    | 19                | 0.25                            | 0.036  |
| SG-24 | 1.56    | 25                | 0.24                            | 0.035  |
| SG-23 | 1.78    | 29                | 0.24                            | 0.035  |
| SG-22 | 2.20    | 35                | 0.23                            | 0.033  |

**Acoustical Performance**

Type "A" Mounting Sound Absorption Coefficients\*

| Type  | Thickness |    | Frequency (Hz) |      |      |      |      |      |      | NRC** |
|-------|-----------|----|----------------|------|------|------|------|------|------|-------|
|       | in.       | mm | 125            | 250  | 500  | 1000 | 2000 | 4000 |      |       |
| SG-28 | 1         | 25 | 0.11           | 0.31 | 0.60 | 0.80 | 0.90 | 0.93 | 0.65 |       |
|       | 2         | 51 | 0.16           | 0.60 | 0.92 | 0.98 | 0.97 | 1.01 | 0.85 |       |
|       | 3         | 76 | 0.36           | 1.02 | 1.12 | 1.10 | 1.08 | 1.07 | 1.10 |       |
| SG-26 | 1         | 25 | 0.09           | 0.30 | 0.60 | 0.77 | 0.89 | 0.93 | 0.65 |       |
|       | 2         | 51 | 0.18           | 0.64 | 0.99 | 1.02 | 1.01 | 1.04 | 0.90 |       |
|       | 3         | 76 | 0.36           | 0.99 | 1.20 | 1.11 | 1.06 | 1.06 | 1.10 |       |
| SG-24 | 1         | 25 | 0.10           | 0.28 | 0.62 | 0.84 | 0.95 | 0.97 | 0.65 |       |
|       | 2         | 51 | 0.22           | 0.71 | 1.03 | 1.08 | 1.05 | 1.02 | 0.95 |       |
| SG-22 | 1         | 25 | 0.05           | 0.23 | 0.61 | 0.90 | 1.00 | 1.01 | 0.70 |       |

\*Tested in accordance with ASTM C423 90a and ASTM E795 83.

\*\*Noise reduction coefficient.



# SG Series Spin-Glas®

*Fiber Glass Insulation*



717 17th St.  
Denver, CO 80202  
1-800-654-3103  
www.JM.com

## **Insulation Systems, OEM Insulations**

**For OEM Customer Service:**  
(800) 426-2435

**For Product and  
Technical Information:**  
(800) 654-3103

The physical and chemical properties of SG Series Spin-Glas® 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, call (800) 654-3103.**