

SG Series Spin-Glas® & Range Spin-Glas

Fiber Glass Insulations

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

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.

SG Series Spin-Glas is available in rolls in a wide range of thicknesses and densities (see back of this sheet). Densities are adjusted to meet thermal conductivity requirements.

Range Spin-Glas insulation is a lightweight thermal blanket designed to provide high insulating efficiency in all types of household and commercial ovens operating at hot-face temperatures up to 1000° F (538° C). It is composed of rotary-process fiber glass bonded with a special thermosetting phenolic-type resin.

This insulation emits minimal smoke and odor during the initial cleaning cycle on self-cleaning ranges or the initial broil cycle on standard ranges. Range Spin-Glas performs equally well in self-cleaning, continuous-cleaning, standard, and industrial-type ovens. The compressed blankets separate easily when removed from shipping packages.

Range Spin-Glas insulation is available in roll form in a wide range of thermal performances, thicknesses, and widths (see back of this sheet). Densities are adjusted to meet thermal conductivity requirements.

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



SG Spin-Glas Applications:

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

Range Spin-Glas Applications:

- *Standard Ranges*
- *Self-Cleaning Ranges*
- *Commercial Ovens*

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Specifications

Temperature Limit:

SG Series Spin-Glas: 350° F (177° C)
Range Spin-Glas: 1000° F (538° C)

Fire Hazard Classification:

Both products 25/50 (per ASTM E 84 and UL 723 and CAN/ULC S102 - M88). Labels supplied when requested on order. Meets NFPA 90A and 90B.

Fabricated Products:

SG Series Spin-Glas and Range Spin-Glas are 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.

For Information

Write Johns Manville Product Information Center, P.O. Box 5108, Denver, Colorado 80217-5108, or call toll-free 1-800-654-3103 (outside Colorado); (303) 978-4900 (inside Colorado).

Limited Warranty

All Johns Manville products are sold subject to Johns Manville's Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy, write to:

Johns Manville Product Information Center
P.O. Box 5108
Denver, CO 80217-5108

or call toll free: 1-800-654-3103 or contact your local Johns Manville sales representative.

SG Series Spin-Glas - Thermal Conductivity (k) & Density

Type	Density		Mean Temp @ 75° F (23° C)	
	pcf	g/cc	Btu•in./hr. •ft. ² • F	W/mK
SG-28	0.85	53	0.27	.039
SG-26	1.04	65	0.26	.037
SG-25	1.20	75	0.25	.036
SG-24	1.56	97	0.24	.035
SG-23	1.78	111	0.24	.035
SG-22	2.20	137	0.23	.033

SG Series Spin-Glas - Acoustical Performance

Type "A" Mounting Sound Absorption Coefficients*

Type	Thicknesses		Frequency (Hz)						
	inches	mm	125	250	500	1000	2000	4000	NRC**
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 C 423 90a and ASTM E 795 83

**Noise Reduction Coefficient

Range Spin-Glas - Standard Thicknesses

Thicknesses: 1" (25 mm) to 6" (152 mm) in. ½" (6 mm) Increments

Widths: 16" (406 mm) to 96" (2433 mm) in. ½" (6 mm) Increments

Range Spin-Glas - Standard Densities

Type	Nominal Density*	
	pcf	g/cc
SGR-3	2.0	125
SGR-6	1.06	66

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

Range Spin-Glas - Thermal Conductivity (k) Btu•in./hr. •ft.² • F) W/mK

Mean Temperature °F (°C)		SGR-3		SGR-6	
75	(23)	.23	.033	.26	.037
150	(83)	.27	.039	.33	.048
250	(121)	.34	.049	.45	.065
350	(177)	.43	.062	.57	.082
450	(232)	.55	.079	.77	.111



Johns Manville

OEM Insulations Division

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The physical and chemical properties of Johns Manville SG Series Spin-Glas and Range Spin-Glas represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. The data is supplied as a technical service and is subject to change without notice. Check with your Johns Manville representative to obtain current information.