

Spin-Glas® WH XG™
Thermal and Acoustical Insulation

Description

Spin-Glas® WH XG™ is a lightweight, white insulation material designed to provide excellent performance in residential and commercial water heaters (both electric and gas).

The insulation blanket is manufactured from rotary-process fiber glass bonded with a special thermosetting acrylic resin. Spin-Glas WH XG insulation is available in roll form in a broad range of thicknesses and densities. The friendlier feel of the blanket provides ease of handling during processing and installation.

Thermal and Acoustical Solutions

Spin-Glas WH XG can be used in a variety of applications that require good thermal and acoustical efficiency and require minimal space.

Appliance and Equipment Applications

Because the glass fibers in Spin-Glas WH XG are extremely fine, they create an enormous number of minute air spaces, making the insulation highly effective for sound absorption and thermal properties. The glass fibers are resistant to the effects of moisture, oil, grease, and most acids. Because the fibers are highly resilient, they resist settling, breakdown or sagging from vibration.

Available Forms

See Spin-Glas WH XG Purchase Guide, SGXG-IS-311 for specific details.

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.

Applications

- Insulation for residential water heaters
- Insulation for commercial water heaters
- Excellent gasket material
 - Water heater pipe penetrations
- Appliance insulation
- Storage tank insulation

Insulation Properties

- Excellent thermal efficiency
- Excellent acoustical performance
- Easy to fabricate
- Easy to handle and install



Specifications

Temperature Limit: 1,000°F (538°C)

Fire Hazard Classification: 25/50 Flame Spread/Smoke

Developed Ratings per ASTM E 84, UL 723 and CAN/ULC S102 - M88. Labels supplied when requested on order. Meets NFPA 90A and 90B.

General Properties

Moisture Absorption:	Less than 1.0% by volume
Odor:	Negligible
Resistance to Fungi & Bacteria:	Does not breed or promote

Spin-Glas® WH XG™

Thermal and Acoustical Insulation

Thermal Conductivity (k) per ASTM C 518

Density		Mean Temp. @ 75°F (24°C)		Mean Temp. @ 150°F (65.4°C)	
pcf	kg/m ³	Btu•in/(hr•ft ² •°F)	W/m•°K	Btu•in/(hr•ft ² •°F)	W/m•°K
1.02	16	0.26	.037	0.31	.066
2.00	32	0.22	.032	0.28	.048

Acoustical Performance

Sound Absorption Coefficients*

Type "A" Mounting

Density		Thickness		Frequency (Hz)						
pcf	kg/m ³	in	mm	125	250	500	1000	2000	4000	NRC**
1.02	16	1.0	25	0.05	0.26	0.57	0.77	0.87	0.90	0.60
2.00	32	1.0	25	0.07	0.23	0.58	0.84	0.95	1.01	0.65
2.00	32	1.5	38	0.09	0.44	0.93	1.07	1.07	1.07	0.90
2.00	32	2.0	51	0.16	0.73	1.14	1.17	1.10	1.04	1.05

* Tested in accordance with ASTM C 423-90a and ASTM E 795-83

** Noise Reduction Coefficient



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Fax: (800) 329-7397

Western Region & Canada

P.O. Box 625005
Littleton, CO 80162
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Fax: (800) 741-0183

Technical Information

(800) 458-7198

The physical and chemical properties of Spin-Glas® WH XG™ 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 assure 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.**