

DESCRIPTION

Spin-Glas® WH XG / Range-Glas® XG is a lightweight insulation made from rotary-process fiberglass. It provides excellent thermal performance for commercial and residential applications operating at hot-face temperatures up to 1000°F. These products are made with a formaldehyde-free binder; however, all bonded fibrous insulation products made with formaldehyde-free binders will result in some formaldehyde emissions at elevated temperatures ($\geq 450^\circ\text{F}$).

Because the glass fibers in Spin-Glas WH XG / Range-Glas 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. The resilient fibers resist settling, breakdown and sagging from vibration.

AVAILABLE THICKNESSES & DENSITIES

Density		Thickness (in 1/2" (13mm) increments)	
pcf	kg/m ³	in	mm
1.02	16	1.0 – 4.0	25 – 102
1.26	20	1.0 – 3.0	25 – 76
1.76	28	1.0 – 2.0	25 – 51
2.00	32	1.0 – 2.0	25 – 51
2.50	40	1.0 – 1.5	25 – 38

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	1,000°F (538°C)
Corrosiveness	Passes ASTM C665 for steel, aluminum and copper
Fire Hazard Classification (FHC), ASTM E84, UL 723, CAN/ULC S102-M88, NFPA 90A and 90B	25 Flame Spread 50 Smoke Developed
Moisture Absorption	Less than 1.0% by volume
Odor	Negligible
Resistance to Fungi and Bacteria	Does not breed or promote

APPLICATIONS

- Water heaters (residential and commercial)
- Ovens and ranges (gas and electric)
- Excellent gasket material
- Water heater pipe penetrations
- Storage tank insulation

ADVANTAGES

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



SPIN-GLAS® WH XG / RANGE-GLAS® XG

THERMAL AND ACOUSTICAL INSULATION

DATA SHEET

THERMAL CONDUCTIVITY (K) PER ASTM C518

Density		Mean Temp. @ 75°F (24°C)		Mean Temp. @ 300°F (149°C)		Mean Temp. @ 500°F (260°C)	
pcf	kg/m ³	Btu•in/(hr•ft ² •°F)	W/m•°C	Btu•in/(hr•ft ² •°F)	W/m•°C	Btu•in/(hr•ft ² •°F)	W/m•°C
1.02	16	0.26	0.037	0.46	0.066	0.74	0.107
1.26	20	0.24	0.035	0.42	0.061	0.66	0.095
1.76	28	0.23	0.033	0.38	0.055	0.58	0.084
2.00	32	0.22	0.032	0.35	0.051	0.53	0.076
2.50	40	0.22	0.032	0.33	0.048	0.48	0.069

SOUND ABSORPTION COEFFICIENTS

Type "A" Mounting for 1" (25mm) Thickness

Density		NRC
pcf	kg/m ³	
1.02	16	0.60
1.26	20	0.75
1.76	28	0.80
2.00	32	0.80
2.50	40	0.80

Note: Coefficients were tested in accordance with ASTM C423 and ASTM E795 test methods.



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800-426-2435

**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 Spin-Glas WH XG/Range-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. 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.