



INNOVATIONS FOR LIVING™

# GEM™ Insulation Fiber Glass Insulation for Appliance Applications

## Product Data Sheet

### Description

Owens Corning GEM insulation is designed for use in household, commercial, institutional and laboratory appliances, as well as other commercial and industrial applications. The product is thin, has outstanding dimensional stability, excellent thermal performance, low smoke and odor, and is easy to handle and install. The flexible, white, mechanically entangled fiber glass blankets are bonded with a proprietary thermoset binder.

### Applications

GEM insulation is available either faced or unfaced, and is suitable for a variety of uses such as:

- Water heaters
- Self-cleaning and standard ranges, countertop ranges, and built-in wall ovens
- Oven panels and broilers
- Commercial ovens
- Fireplaces
- Vehicles, such as trucks and buses
- Removable insulation for joints, fittings and valves

### Thermal Conductivity

Type	Density <sup>1</sup>		Nominal K, Btu•in/hr•ft <sup>2</sup> °F			Nominal K, W/mK		
	lb/ft <sup>3</sup>	kg/m <sup>3</sup>	75°F	300°F	500°F	23°C	149°C	260°C
GEM - A	2.0	31.43	0.23	0.39	0.62	0.033	0.056	0.089
GEM - B	2.7	42.43	0.22	0.34	0.48	0.032	0.049	0.069
GEM - C	4.0	62.86	0.21	0.31	0.44	0.031	0.045	0.063
GEM - D	5.0	78.58	0.21	0.30	0.42	0.031	0.044	0.060

<sup>1</sup>Density value is nominal. Product control is on thermal conductivity.

### Product Attributes

- GEM insulation's tensile strength and thickness allow for design flexibility and ease of handling and installation.
- User friendly fibers result in less itch and irritation for installers
- Helps absorb equipment noise, providing acoustical benefits
- Helps provide optimal thermal performance when compared to competitive materials
- Operates in environments from subzero to 1000°F

### Physical Property Performance

- GEM insulation is non-corrosive and will not corrode copper, aluminum and steel (per ASTM C 665).
- GEM insulation has flame spread/smoke developed indices less than 25/50 (per ASTM E 84).

- GEM insulation has an operating temperature range up to 1000°F (538°C) for unfaced materials (per ASTM C 411). *For faced products, the adhesive will maintain its performance to 400 F (204 C).*

### Availability

GEM insulation is currently available in four types and six thicknesses:

- Type A at 0.5" thick,
- Type B at 0.375" thick
- Type C at 0.25" thick and 0.5" thick
- Type D at 0.675" and 0.75" thick

Types A, B and C 0.25" are faced with aluminum foil with a fiberglass scrim. Type C 0.5" is available faced or unfaced. Type D grades are available unfaced only.

### Notes

For additional information refer to:  
Material Safety Data Sheet –  
GEM insulation – MSDS 15-MSD-101173



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