



INNOVATIONS FOR LIVING™

# GEM™ Insulation Fiber Glass Insulation for Industrial Applications

## Product Data Sheet

### Description

Owens Corning GEM insulation is designed for high temperature commercial and industrial applications. The product is an excellent choice for applications where a high density blanket with excellent flexibility and dimensional stability is required. 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:

- Removable insulation for joints, fittings and valves
- Commercial ovens
- Industrial equipment
- Tanks

### 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 - 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
- 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 three types and four thicknesses:

- Type B at 0.375" thick with aluminum foil/fiberglass scrim
- Type C at 0.25" thick available with foil/fiberglass scrim and 0.5" thick unfaced and with foil/fiberglass scrim
- Type D at 0.75" thick unfaced

### Notes

For additional information refer to:

Material Safety Data Sheet – GEM insulation – MSDS 15-MSD-101173



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