

Graphite Rigid Board (Vacuum Formed)

- Graphite rigid board (FGM-201) is a low density bonded carbon fiber material that is designed to operate in a vacuum or inert atmosphere up to 5000°F (2750°C).
- Available in custom sizes & thicknesses up to 10" thick & 50" wide & 60" long.
- Rigid board can be easily shaped by machining, sawing and drilling and can even be machined into cylindrical forms to meet specific complex configurations.
- Foil, carbon cloth and coatings that can be applied to the board to prevent infiltration & oxidation while maximizing the insulation performance and longevity.
- Density is measured and recorded on 100% of the material.

Distinguishing Characteristics

- Low thermal conductivity & expansion
- Good thermal insulating qualities
- Low out-gassing in temperatures > 1400°C
- Low vapor pressure at high temperatures
- Low ash and sulfur content
- Low moisture absorption
- Light weight and easily installed
- Low heat retention
- Resistant to metal vapor impregnation
- Excellent chemical resistance
- Rapid heating and cooling due to low mass
- Unsurpassed thermal shock resistance



Graphite Rigid Insulation Board Properties

100% Rayon Precursor

- Fired to 2000 Deg. C
- Bulk Density: 17 g/cc
- Flexural Strength: 145 psi
- Compressive Strength: 29 psi

Thermal Conductivity

- BTU-in/hr-ft²-° F
- 1,000 deg C = 1.7
- 1,500 deg C = 2.3
- 2,000 deg C = 3.1

Ash Content: 300~800 ppm