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 vaporimpregnation
- Excellent chemical resistance
- Rapid heating and cooling due to low mass
- Unsurpassed thermal shock resistance

Graphite Rigid Insulation Board Properties
100% Rayon Precurso
• 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