



Introduces:
**Aerospace-Quality
Carbon/Carbon Priced
for Industrial Applications**

- ◆ **Unique manufacturing process**
 - Versatile formulation
 - Prices lower than those for conventional C/C
 - Orders delivered in weeks rather than months

- ◆ **Sizes and shapes**
 - Flat stock – current capabilities
 - Thickness from 0.5 cm to 2 cm (0.2 to 0.8 inches)
 - Diameters up to 60 cm (24 inches)
 - Shapes custom-machined to your prints

- ◆ **Available in various degrees of heat treatment**
 - Carbonized only, 900C
 - Heat-treated at intermediate temperatures, 1200-2400C
 - Graphitized, 2800-3000C

- ◆ **Typical densities**
 - 1.58 to 1.62 g/cc carbonized
 - Further densification upon request

- ◆ **Material customized to your specific applications, including**

Fire barrier panels	Self-lube bearings and seals
Glass handling	Thermal management
Furnace furniture	Low-CTE molds for composites

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Carbon / Carbon Grade 4030CD

Carbonized at 900 C. Heat treatments up to 2900 C as requested. Available in flat stock, diameters up to 60 cm (24 in.), and thicknesses from 0.5 - 2.0 cm (0.2 - 0.8 in.), or custom machined to your prints.

Properties		Typical Values	
Bulk Density		1.75 g/cm ³	109 lbs/ft ³
Total Porosity		8-10%	8-10%
Ash Content		0.2%	0.2%
Flexural Strength	Flatwise	104 MPa	15,000 psi
	Edgewise	69 MPa	10,000 psi
Compressive Strength	Flatwise	79 MPa	11,500 psi
	Edgewise	55 MPa	8,000 psi
Flexural Modulus	Flatwise	3.1 x 10 ⁴ Mpa	4.5 x 10 ⁶ psi
	Edgewise	2.5 x 10 ⁴ Mpa	3.7 x 10 ⁶ psi
Thermal Conductivity	Flatwise	63.4 W / m-K	
	Edgewise	3.4 W / m-K	
Coeff. of Thermal Expansion	Thru thickness	5.0 x 10 ⁻⁶ / °C	2.8 x 10 ⁻⁶ / °F