

FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

Foundry Service & Supplies, Inc.

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HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

Fibercomp

Fibercomp is a high performance carbon fiber reinforced and graphite filled thermoset polyimide composite. This material possesses an unmatched strength to weight ratio and should be specified when any of the following properties are required:

- ◇ High Temperature Resistance
- ◇ Self Lubricating
- ◇ Good Impact Strength
- ◇ Excellent Corrosion Resistance
- ◇ Low Wear
- ◇ Light Weight
- ◇ Dimensional Stability

General Information

Matrix:	Polyimide Resin
Reinforcement:	Carbon Fiber
Filler:	Graphite Powder
Specific Gravity:	1.50
Available Forms:	Plates, Rods, Tubes, Custom Molded

Property	Units	Value
Density	PCF	95
Compressive Strength @ 73°F	PSI	36,000
@ 500°F	PSI	25,000
Flexural Strength @ 73°F	PSI	15,000
@ 500°F	PSI	12,500
Flexural Modulus @ 73°F	PSI	2,100,000
@ 500°F	PSI	1,500,000
Tensile Strength @ 73°F	PSI	12,000
@ 500°F	PSI	8,000
Tensile Modulus @ 73°F	PSI	2,300,000
@ 500°F	PSI	1,600,000
Izod Impact Strength (Notched) @ 73°F	Ft. Lb./In.	3
Coefficient of Friction (Unlubricated Against Steel)		.10 - .20
Limiting PV (Unlubricated Against Steel)		80,000
Maximum Operating Temperature	°F	850
Continuous Operating Temperature	°F	600
Coefficient of Linear Thermal Expansion	In./In./°F X 10 ⁻⁶	10.0
Thermal Conductivity	BTU-In./Hr.-Ft. ² -°F	8.3
Chemical Resistance (Strong Bases w/pH > 10 Not Recommended)		Excellent
Machinability		Good
Max. Sheet Size	Inches	20 X 30

* The Fibercomp properties listed represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with your supplier to assure current information