

GRAFOAM® Carbon Foam FPH-10

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GRAFOAM® carbon foam Grade FPH-10 is a rigid carbon foam material that will provide low thermal conductivity and vapor pressure with excellent insulating characteristics to reduce heat loss. It can withstand furnace temperatures up to 4500 °F (2500 °C) and virtually eliminates voids or hotspots found with other materials. It is easy to handle, easy to install, machines freely and is able to hold fine detail.

Typical Applications

- Vacuum furnace insulation
- Inert gas furnace insulation
- Inert gas atmosphere process equipment insulation

Sizes

Board stock 6" X 36" X 72"; 15 cm X 90 cm X 180 cm

Additional sizes and shapes available upon request.

<u>Typical Properties at Room Temperature</u>				
	<u>ENGLISH</u>		<u>METRIC</u>	
Bulk Density	lbs/ft ³	10.0	g/cm ³	0.16
High Temperature CTE (30-2000°C)	X 10 ⁻⁶ /°F	2.5	X 10 ⁻⁶ /°C	4.4
Specific Resistance	Ω in.	0.04	μΩm	940
Flex Strength (4 point)	psi	325.9	MPa	2.3
Compressive Strength	psi	646.0	MPa	4.4
Apparent Porosity	%	90	%	90
Ash	psi	0.3	MPa	0.3
Thermal Conductivity (room temperature)	BTU/hr-ft-°F	0.1	W/mK	0.2

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