

GRAFOAM® Carbon Foam FPA-10

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GRAFOAM® FPA-10 is a carbon foam product that has a nominal density of 10 lb/ft³. The material has unique properties such as high strength and lightweight, and is an excellent thermal insulator at temperatures up to 1000°C.

Typical Applications

- Applications in high temperature and corrosive environments
- Other applications include composite tooling, insulation, fire resistant panels and batteries

Sizes

FPA-10: 6" X 18" X 72"
Other sizes available upon request

<u>Typical Properties at Room Temperature</u>				
	<u>ENGLISH</u>		<u>METRIC</u>	
Bulk Density	lbs/ft ³	10.4	g/cm ³	0.166
CTE (30-100°C)	X 10 ⁻⁶ /°F	1.3	X 10 ⁻⁶ /°C	2.3
Specific Resistance (WR)	Ω in.	0.14	μΩm	3542
Specific Resistance (AR)	Ω in.	0.10	μΩm	2510
Flexural Strength (WR)	psi	175	MPa	1.2
Flexural Strength (AR)	psi	335	MPa	2.3
Young's Modulus	psi X 10 ⁶	0.07	GPa	0.5
Compressive Strength (WR)	psi	760	MPa	5.2
Compressive Strength (AR)	psi	470	MPa	3.2
Gas Permeability	Darcy	nm	Darcy	nm
Apparent Porosity	%	-90	%	-90
Tensile Strength (WR)	psi	276	MPa	1.91
Tensile Strength (AR)	psi	148	MPa	1.02
Thermal Conductivity (WR) (room temperature)	BTU/hr-ft-°F	.07	W/mK	.12
Thermal Conductivity (AR) (room temperature)	BTU/hr-ft-°F	.06	W/mK	.11
Shear Strength (torsional)	psi	160	MPa	1.1

Note: It is not recommended that FPA-10 be used in oxidizing atmospheres above 200°C.

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