

PC-100 Porous Carbon

Technical Data Sheet 6022

Product Overview

GRAFSTAR™ PC-100 porous carbon provides uniform high porosity and small pore size, resistance to practically all corrosive solutions, resistance to thermal shock, and is easily machined.

Sizes

- 7 x 39" rounds
- 14 x 14 x 20" rectangles

Typical Properties at Room Temperature*

Characteristic	Unit	Value	Unit	Value
Bulk Density	lb/ft ³	68	g/cc	1.10
Porosity	%	30	%	30
Compressive Strength	lb/in ²	2500	MPa	17.0
Flexural Strength	lb/in ²	975	MPa	6.7
Average Pore Diameter	in	0.0023	µm	58
Specific Resistance	10 ⁻⁹ Ω in	165	µΩm	30
Thermal Conductivity	BTU-ft/hr ft ² °F	26	W/mK	45
C.T.E. (to 100 °C)	10 ⁻⁶ /°F	1.1	10 ⁻⁶ /°C	1.8

Filtration Rate		
Air	ft ³ /ft ² /min	3
Water	gal/ft ² /min	30

Notes:
*Properties listed are typical and cannot be used as accept/reject specifications

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Redefining limits