



# Porous Carbon PC-100 and PC-150

Quality, Service, and Consistency

**Description:** Porous Carbon is widely used in the furnace for the single crystal growing of SiC in vacuum or inert gas atmospheres at up to 2650°C or higher.

**Available in these sizes:**

Rectangular: 14"x 14" x 21"

Rounds: 7.50" Diameter x 39" Long

6.50" Diameter x 39" Long

\*Longer lengths are available upon request"

Properties	Test Standard	UOM	English	
			PC-100	PC-150
Average Pore Diameter		inches	0.0023	0.0013
Apparent Density	ASTM C-838	g/cm <sup>3</sup>	1.06	1.10
Electrical Resistivity	ASTM C-611	Ω-inch x 10 <sup>5</sup>	400	400
Flexural Strength	ASTM C-651	lb/in <sup>2</sup>	450	500
Compressive Strength	ASTM C-695	lb/in <sup>2</sup>	800	900
Porosity	ASTM C-830	%	50	48
Thermal Conductivity	ASTM C-201	Btu-ft/hr-ft <sup>2</sup> °F	1.1	1.1
Filtration Rate - Air		ft <sup>3</sup> /ft <sup>2</sup> /min	3	1
Filtration Rate - Water		gal/ft <sup>2</sup> /min	30	10

**PC-100/PC-150 Rev.0**

**NOTE:** The above data should be regarded as general information, not guaranteed specification limits.

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