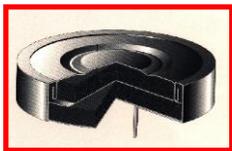




## **PRODUCT INFORMATION**

### ***Spectracarb™ 2225 Type 900 Activated Carbon Fabric (ACF)***

Spectracarb™ 2225 Type 900 Activated Carbon Fabric (ACF) is a high surface area, drapeable cloth that is used in various electrochemical devices including ultracapacitors, electrical double layer capacitors, and battery electrodes. Spectracarb 2225 ACF also serves as the high surface area electrode in many electrochemical purification and electrosorption processes, as well as unique applications such as a carrier for thin film oxides in various devices. In addition to the commercial applications of Spectracarb ACF, its use continues to be cited in numerous research programs and articles related to energy storage, purification and electrochemical processes.



Ultracapacitor performance and energy storage is a direct function of surface area available, and Spectracarb 2225 ACF meets that objective through the open pore structure of the carbon fibers. Because of the high tensile strength of both fibers and fabric, Spectracarb 2225 ACF is also being used in the development of structural electrochemical devices.

### **FEATURES**

- Woven fabric construction /no dusting
- One-hundred percent carbon fiber with no additional binders
- High surface area suited for specialty electrochemical and chemical filtration applications
- Highly effective energy storage
- Suitable for electrosorption processes
- High drape, conformability, rollable to very small radius
- High fiber and fabric strength

### **TYPICAL PROPERTIES**

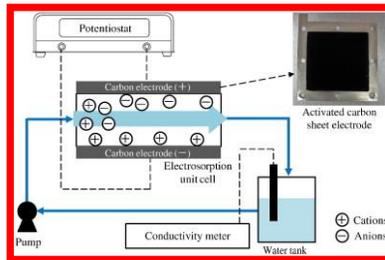
| <b>Measurement</b>                 | <b>Units</b>           | <b>Value</b> |
|------------------------------------|------------------------|--------------|
| <b>Thickness</b>                   | <b>mm</b>              | <b>0.5</b>   |
| <b>Basis Weight</b>                | <b>g/m<sup>2</sup></b> | <b>135</b>   |
| <b>Specific Surface Area (BET)</b> | <b>m<sup>2</sup>/g</b> | <b>2,500</b> |
| <b>Benzene Adsorption</b>          | <b>wt%</b>             | <b>65</b>    |
| <b>Iodine Adsorption</b>           | <b>mg/g</b>            | <b>2050</b>  |
| <b>Electrical Resistivity</b>      | <b>ohm-cm</b>          | <b>2</b>     |

## TYPICAL APPLICATIONS

### CLEAN ENERGY STORAGE



### ELECTROCHEMICAL PURIFICATION



## AVAILABILITY

Spectracarb 2225 ACF is available in continuous rolls 105 cm (42 in) wide, or in sizes as small as 300 x300 mm for research and development projects.

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