Spectracarb™ 2225 Type 900 Activated Carbon Fabric (ACF)

Spectracarb™ 2225 Type 900 Activated Carbon Fabric (ACF) is a high surface area, drapeable fabric 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

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>mm</td>
<td>0.5</td>
</tr>
<tr>
<td>Basis Weight</td>
<td>g/m²</td>
<td>135</td>
</tr>
<tr>
<td>Specific Surface Area (BET)</td>
<td>m²/g</td>
<td>2,500</td>
</tr>
<tr>
<td>Benzene Adsorption</td>
<td>wt%</td>
<td>65</td>
</tr>
<tr>
<td>Iodine Adsorption</td>
<td>mg/g</td>
<td>2050</td>
</tr>
<tr>
<td>Electrical Resistivity</td>
<td>ohm-cm</td>
<td>2</td>
</tr>
</tbody>
</table>
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 x 300 mm for research and development projects.

A complete list and discussion of Spectracarb Products can be found at www.Spectracarb.com

DISCLAIMER: The information and statements herein are believed to be reliable, but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing of any information or products referred to herein to determine suitability for their own particular purpose. WE MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing herein is to be taken as permission, inducement or recommendation to infringe on any patent or other intellectual property right, or violate any law or safety code.

© 2013-2016 Engineered Fibers Technology, LLC. All rights reserved. Document: TDS-006.04