Technical Data Sheet

ACS Material Carbon Nanotube Sponges

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Revision: 012418
1. Preparation Method

CVD Method

2. Characterizations

<table>
<thead>
<tr>
<th>Shape:</th>
<th>Black Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer Diameter:</td>
<td>30-50 nm</td>
</tr>
<tr>
<td>Inner Diameter:</td>
<td>10-20 nm</td>
</tr>
<tr>
<td>Porosity Ratio:</td>
<td>99%</td>
</tr>
<tr>
<td>Density:</td>
<td>Standard density: 10 mg/cm$^3$, can be customized into 5-50 mg/cm$^3$</td>
</tr>
<tr>
<td>L×W×H:</td>
<td>1 cm×1 cm×0.4 cm, 2 cm×2 cm×0.4 cm, 5 cm×2 cm×0.4 cm, 10 cm×5 cm×0.4 cm</td>
</tr>
</tbody>
</table>

Note: Other different sizes can be customized (block size: 0.1-100 mL), and other density samples can be customized as well, density range: 5-50 mg/cm$^3$.
TEM Image (01) of ACS Material Carbon Nanotube Sponges
TEM Image (02) of ACS Material Carbon Nanotube Sponges

SEM Image (01) of ACS Material Carbon Nanotube Sponges
3. Application Fields
The sponge structure is uniform, good mechanical strength, good flexibility, high porosity and low density. It can be used as a purifying agent to absorb pollutants such as fertilizers, pesticides and pharmaceuticals in water, energy storage materials, catalyst carriers and high-efficiency composite materials.

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