Technical Data Sheet

ACS Material Mesoporous Silica Molecular Sieve SBA-15

Table of Contents

1 – Preparation Method
2 – Characterizations
3 – Application Fields

Contact Information:
Manufacturer: ACS Material, LLC.
Address: 959 E Walnut St. Suite 100
Pasadena, CA 91106, USA
Phone: (866)-227-0656
Fax: (781)-518-0284
E-Mail: contact@acsmaterial.com
Revision: 091218
1. Preparation Method
   Hydrothermal Method

2. Characterizations

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White Powder</td>
</tr>
<tr>
<td>Particle Size (µm)</td>
<td>1~4</td>
</tr>
<tr>
<td>Pore Diameter (nm)</td>
<td>6~11</td>
</tr>
<tr>
<td>Pore Volume (cm³/g)</td>
<td>1.46</td>
</tr>
<tr>
<td>BET surface area (m²/g)</td>
<td>≥550</td>
</tr>
<tr>
<td>Na₂O (%)</td>
<td>≤0.1</td>
</tr>
<tr>
<td>Comparative Crystallinity (%)</td>
<td>≥90</td>
</tr>
<tr>
<td>Bulk Density (g/cm³)</td>
<td>0.067</td>
</tr>
<tr>
<td>Tap Density (g/cm³)</td>
<td>0.145</td>
</tr>
</tbody>
</table>

Typical SEM Image (01) of ACS Material Mesoporous Silica Molecular Sieve SBA-15
Typical SEM Image (02) of ACS Material Mesoporous Silica Molecular Sieve SBA-15

Typical TEM Image (01) of ACS Material Mesoporous Silica Molecular Sieve SBA-15
Typical TEM Image (02) of ACS Material Mesoporous Silica Molecular Sieve SBA-15

Typical XRD Analysis of ACS Material Mesoporous Silica Molecular Sieve SBA-15
3. Application Fields

1) Catalyst carrier
2) As a templating agent
3) Nanomaterials

Disclaimer: ACS Material, LLC believes that the information in this Technical Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties either express or implied, regarding the suitability of the material for any purpose or the accuracy of the information contained within this document. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.