Technical Data Sheet

ACS Material Mesoporous Molecular Sieve Nano H-ZSM-5

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Revision: 050117
1. Preparation Method
Hydrothermal synthesis method

2. Characterizations

<table>
<thead>
<tr>
<th>Type</th>
<th>P-26</th>
<th>P-52</th>
<th>P-87</th>
<th>P-91</th>
<th>P-371</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shape:</td>
<td>Sphere</td>
<td>Sphere</td>
<td>Sphere</td>
<td>Sphere</td>
<td>Sphere</td>
</tr>
<tr>
<td>SiO$_2$/Al$_2$O$_3$ Molar Ratio:</td>
<td>26</td>
<td>52</td>
<td>87</td>
<td>91</td>
<td>371</td>
</tr>
<tr>
<td>Na%:</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Crystal Size (nm):</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300,700</td>
</tr>
<tr>
<td>H$_2$O (wt.%):</td>
<td>&lt;5</td>
<td>&lt;5</td>
<td>&lt;5</td>
<td>&lt;5</td>
<td>&lt;5</td>
</tr>
<tr>
<td>BET surface area (m$^2$/g):</td>
<td>≥362</td>
<td>≥362</td>
<td>≥362</td>
<td>≥362</td>
<td>≥362</td>
</tr>
<tr>
<td>Relative Crystallization (%):</td>
<td>100</td>
<td>98</td>
<td>100</td>
<td>99</td>
<td>96</td>
</tr>
</tbody>
</table>

Typical SEM Image of ACS Material Nano H-ZSM-5 P-26
Typical SEM Image of ACS Material Nano H-ZSM-5 P-52

Typical SEM Image of ACS Material Nano H-ZSM-5 P-87
Typical SEM of ACS Material Nano H-ZSM-5 P-91

Typical SEM of ACS Material Nano H-ZSM-5 P-371
3. Application Fields

1) Catalyst
2) Adsorbent

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