Technical Data Sheet

ACS Material Y-Zeolite

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1. Preparation Method
Hydrothermal Method

2. Characterizations

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>White powder</td>
</tr>
<tr>
<td>SiO$_2$/Al$_2$O$_3$:</td>
<td>$\geq 5.3$</td>
</tr>
<tr>
<td>Particle size:</td>
<td>0.6-0.9 µm</td>
</tr>
<tr>
<td>Lattice constant:</td>
<td>2.45-2.48 nm</td>
</tr>
<tr>
<td>Na$_2$O:</td>
<td>$\leq 12.5%$</td>
</tr>
<tr>
<td>Crystallinity:</td>
<td>$\geq 88%$</td>
</tr>
<tr>
<td>LOI (Loss on ignition):</td>
<td>$\leq 15%$</td>
</tr>
<tr>
<td>Static bibulous value:</td>
<td>$\geq 32%$</td>
</tr>
</tbody>
</table>

Typical TEM Image of ACS Material Y-zeolite
Typical TEM Image of ACS Material Y-zeolite

Typical TEM Image of ACS Material Y-zeolite
3. Application Fields

1) Fluid catalytic cracking (FCC)
2) Hydrocracking
3) Isomerization processes of oil refining

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