Technical Data Sheet

ACS Material Mesoporous Molecular Sieve

ZSM-5 Catalyst

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1. Preparation Method
Hydrothermal Method

2. Characterizations

<table>
<thead>
<tr>
<th>Appearance:</th>
<th>Column (pelletized), solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>SiO₂/Al₂O₃ Molar Ratio:</td>
<td>38</td>
</tr>
<tr>
<td>Dimension:</td>
<td>Φ2×2-10 mm</td>
</tr>
<tr>
<td>Pore Volume:</td>
<td>≥0.25 cm³/g</td>
</tr>
<tr>
<td>BET surface area:</td>
<td>≥250 m²/g</td>
</tr>
<tr>
<td>Bulk Density:</td>
<td>~0.72 kg/L</td>
</tr>
<tr>
<td>Crushing Strength:</td>
<td>≥98 N/cm²</td>
</tr>
<tr>
<td>Attrition:</td>
<td>&lt;1 wt.%</td>
</tr>
<tr>
<td>Binder Type:</td>
<td>Pseudo-Boehmite</td>
</tr>
<tr>
<td>Binder wt.%:</td>
<td>30 wt.%</td>
</tr>
</tbody>
</table>

3. Application Fields
1) Diesel Oil Nonhydrodewaxing catalysts: decrease the freezing point of diesel fuel
2) DCC catalyst: maximize to produce propylene
3) FCC Catalyst or additives: improve the gasoline octane number and the yields of LPG and propylene
4) Xylene isomerization catalyst
5) Methanol converting to gasoline
6) Aromatization catalyst

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