Technical Data Sheet

ACS Material Natural Graphite Nanoparticles

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1. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Morphology</td>
<td>Flaky</td>
</tr>
<tr>
<td>Ash content (%)</td>
<td>&lt; 0.5</td>
</tr>
<tr>
<td>Water content (%)</td>
<td>0.2</td>
</tr>
<tr>
<td>Particle Size:</td>
<td>D_{100}: &lt;1000 nm</td>
</tr>
<tr>
<td></td>
<td>D_{50}: &lt;400 nm</td>
</tr>
<tr>
<td>Thickness (nm)</td>
<td>40</td>
</tr>
<tr>
<td>Purity (%)</td>
<td>&gt; 99</td>
</tr>
</tbody>
</table>

2. Structure Features

Typical TEM Image of ACS Material Natural Graphite Nanoparticles (1)
Typical TEM Image of ACS Material Natural Graphite Nanoparticles (2)

Typical TEM Image of ACS Material Natural Graphite Nanoparticles (3)
3. Application Fields

1) Refractory materials
2) Conductive materials
3) Lubricant and wear-resistant materials
4) Corrosion-resistant materials
5) Insulation
6) Radiation protection materials

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