Technical Data Sheet

ACS Material Diamond Nanoparticle 100nm

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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
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1. Preparation Method
   Detonation Method

2. Characterizations

<table>
<thead>
<tr>
<th>Characterization</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BET surface area (m²/g)</td>
<td>300–420</td>
</tr>
<tr>
<td>Total impurity ions (ppm)</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Size distribution:</td>
<td>100 nm</td>
</tr>
</tbody>
</table>

Typical SEM Image of ACS Material Diamond Nanoparticles

3. Application Fields

1) Lubricant and coolant additives
2) Polymer composites
3) Sintered body
4) Magnetic recording system
5) Polishing materials

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