Technical Data Sheet

ACS Material Fluorinated Graphene

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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
Revision: 112617
1. Preparation Method

Mixed atmosphere of high temperature heating method

2. Characterizations

<table>
<thead>
<tr>
<th>Type</th>
<th>A - Single Layer Graphene Powder (made from Single Layer Graphene)</th>
<th>B - Multi-Layer Graphene Nanoplatelets (made from Graphene Nanoplatelets (2-10nm))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Grey</td>
<td>Grey</td>
</tr>
<tr>
<td>Purity</td>
<td>&gt;98%</td>
<td>&gt;98%</td>
</tr>
<tr>
<td>Flake Diameter</td>
<td>0.4-5 µm</td>
<td>2-10 µm</td>
</tr>
<tr>
<td>F wt.%:</td>
<td>58-64</td>
<td>55-60</td>
</tr>
<tr>
<td>C wt.%:</td>
<td>36-42</td>
<td>38-45</td>
</tr>
<tr>
<td>Electrical conductivity</td>
<td>Insulation</td>
<td>Insulation</td>
</tr>
</tbody>
</table>

Typical TEM Image of ACS Material Fluorinated Graphene (Type A)
Typical TEM Image of ACS Material Fluorinated Graphene (Type A)

HRTEM Image of ACS Material Fluorinated Graphene (Type A)
3. Application Fields

1) Interface
2) New Nano-electronic Devices
3) Lubricating Materials
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