Technical Data Sheet

ACS Material CVD Graphene on Quartz

Table of Contents

1 – Preparation Method
2 – Composition & Information on Ingredients
3 – Characterization & Analysis
4 – Application Fields
5 – Use Methods and Attentions

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1. Preparation Method

Graphene on Quartz substrate was prepared by the following steps:
1) As-grown Monolayer graphene on copper foil
2) Deposit PMMA and Cure
3) Etch away Cu
4) Wash PMMA/Graphene in DI water
5) Place PMMA/Graphene on substrate
6) Redeposit PMMA and Cure
7) Remove PMMA with acetone

2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>7782-42-5</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
</tr>
</tbody>
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3. Characterization & Analysis

The types of Graphene on Quartz:
- Single Layer Graphene on Quartz
- Two- or Multi-Layer Graphene on Quartz
- Nitrogen-doped single or multi layer Graphene on Quartz
TEM for ACS Material Single Layer Graphene on Quartz

Raman Spectra for ACS Material Single Layer Graphene made by CVD Method
Raman Spectra for ACS Material 2 Layers Graphene made by CVD Method

Raman Spectra for ACS Material 3-5 Layers Graphene made by CVD Method

Raman Spectra for ACS Material 6-8 Layers Graphene made by CVD Method
4. Application Fields

Supercapacitors;
Catalyst;
Solar energy;
Graphene semiconductor chips;
Conductive graphene film;
Graphene computer memory;
Biomaterials;
Transparent conductive coatings.

5. Use Methods and Attentions

Conditions for safe storage

Keep the products in a dry and low oxygen (or oxygen-free) container at moderate temperature (<30°C).

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