Technical Data Sheet

ACS Material Graphene on Ultra-fine 2000 Mesh Copper TEM Grids

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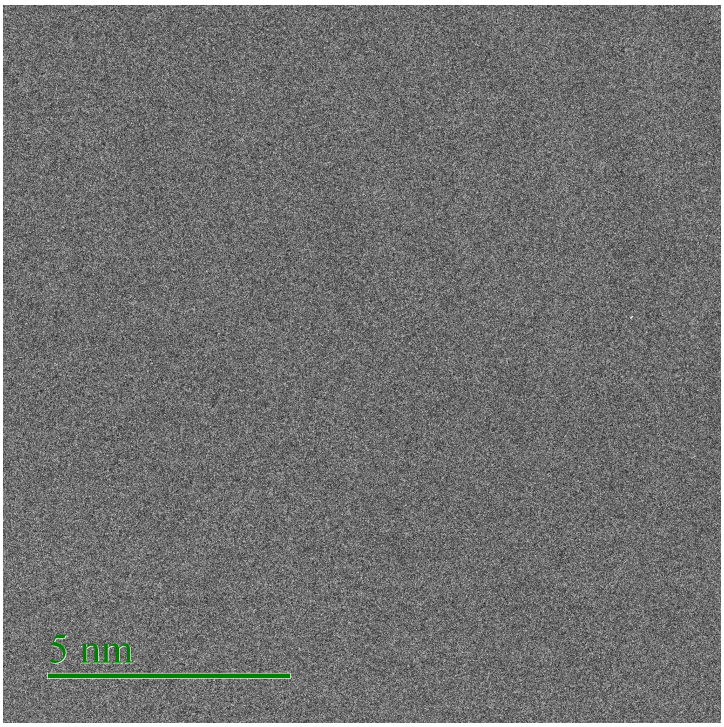
1. Preparation Method

Chemical Vapor Deposition (CVD) Method

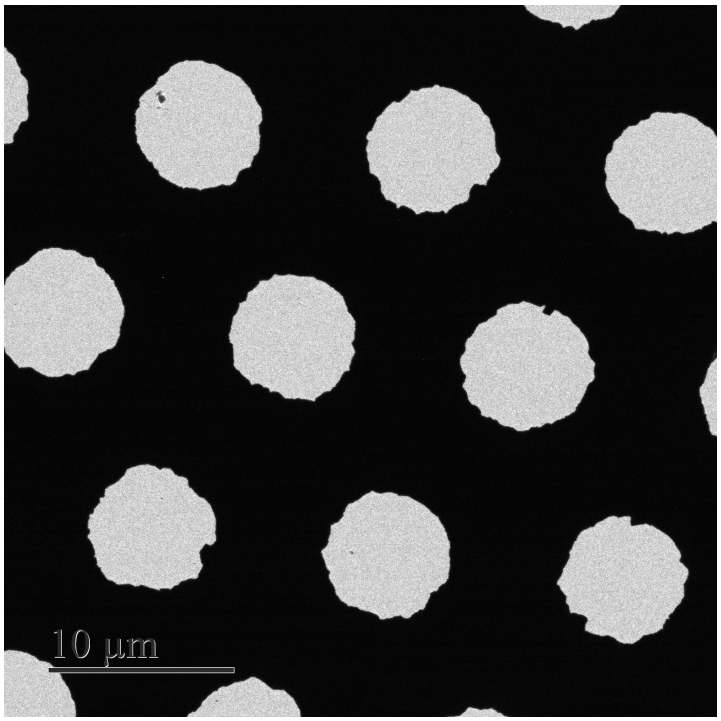
2. Characterizations

The graphene film appears as a near-transparent to light-grey film on the surface of the red-brown microporous copper TEM grid. For support, the TEM grid is attached using epoxy to a gold-colored beryllium-copper disk with a 2 x1mm aperture.

Type	Thickness of the Graphene	Transparency	TEM Grid/AFM Substrate	Support Film
1 Layer	~0.35 nm	~96.4 %	2000 Mesh Copper Grid/ Beryllium AFM Coating	N/A
2 Layers	~0.7 nm	~92.7 %	2000 Mesh Copper Grid/ Beryllium AFM Coating	N/A
3-5 Layers	1.0-1.7 nm	~85.8-90.4 %	2000 Mesh Copper Grid/ Beryllium AFM Coating	N/A
6-8 Layers	2.1-2.8 nm	~78.5-83.2 %	2000 Mesh Copper Grid/ Beryllium AFM Coating	N/A



HR-TEM Image of ACS Material Graphene on Ultra-fine 2000 Mesh Copper TEM Grids



Low Magnification TEM Image of ACS Material Graphene on Ultra-fine 2000 Mesh Copper TEM Grids

3. Application Fields

1) Catalyst
2) Supercapacitors
3) Solar energy
4) Graphene semiconductor chips
5) Conductive graphene film
6) Graphene computer memory
7) Biomaterials
8) Transparent conductive coatings