



## Technical Data Sheet

### ACS Material Graphene Nanoplatelets (2-10nm)

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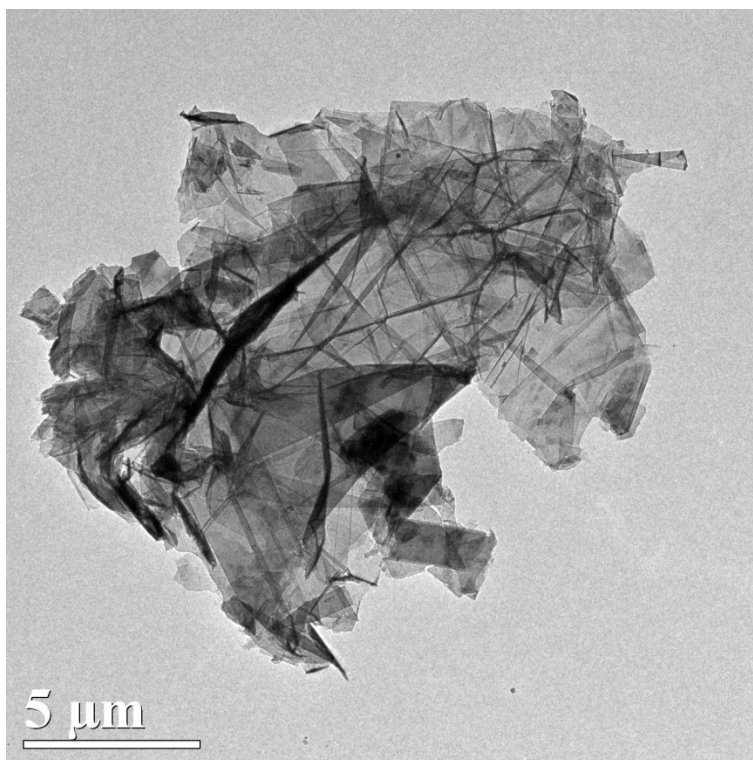
Revision: 122617

## 1. Preparation Method

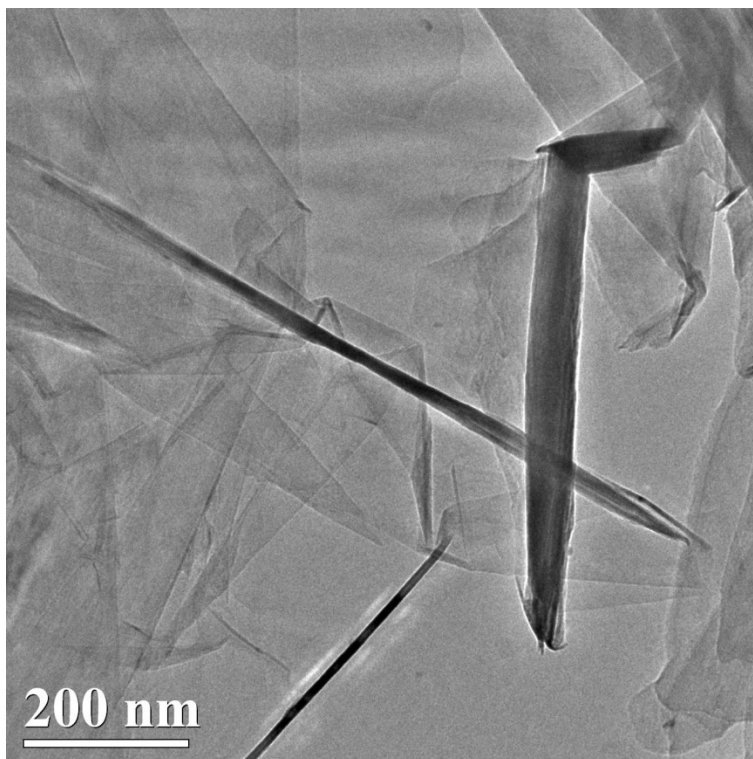
Interlayer Cleavage Method

## 2. Characterizations

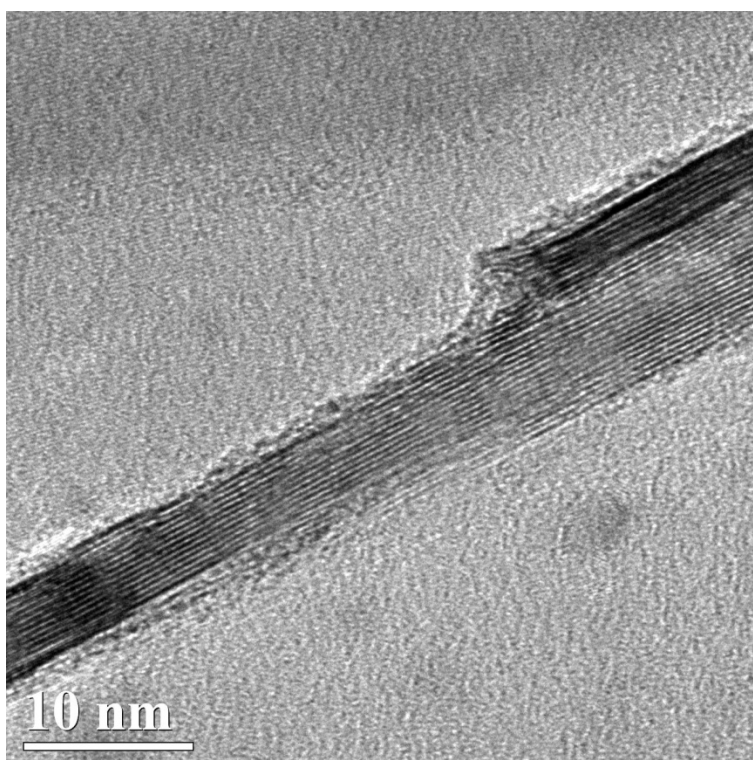
<b>Appearance</b>	Black/Grey Powder
<b>Diameter</b>	2-7 $\mu\text{m}$
<b>Thickness</b>	2-10 nm
<b>Specific Surface Area</b>	20-40 $\text{m}^2/\text{g}$
<b>Electrical Conductivity</b>	80000 S/m
<b>Carbon Content</b>	>99%
<b>Apparent Density</b>	0.06-0.09 g/ml
<b>Water Content</b>	<2 wt.%
<b>Residual Impurities</b>	<1 wt.%
<b>Particle Size Distribution</b>	D10=13.56 $\mu\text{m}$ D50=48.93 $\mu\text{m}$ D90=122.2 $\mu\text{m}$



Typical TEM Image (1) of ACS Material Graphene Nanoplatelets (2-10nm)



Typical TEM Image (2) of ACS Material Graphene Nanoplatelets (2-10nm)



Typical TEM Image (3) of ACS Material Graphene Nanoplatelets (2-10nm)

### 3. Application Fields

- 1) Conductive rubbers, conductive plastics, antistatic plastics
- 2) Thermal plastics, thermal polymer composites, thermal interface materials, thermal materials
- 3) High temperature lubricating materials

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