



Industry Grade: High-quality thin graphene nanoplatlets

1. Product and Code:

Product Name: GRF-HG-01

Appearance: Black powder

Packaging: 50 g, 100 g, 1 kg, 5 kg, 10 kg, 50 kg, 100 kg..



2. Typical properties

Property	Unit	Typical Values
Thickness	nm	3-5
Size	μ m	20
Purity	%	98
Electrical conductivity	S/m	10^5
Oxygen content	%	0.5
Sulphur content	%	0.5
BET	m^2/g	50-100

3. Product applications

The products are suitable for the following applications:

Conductive additive for batteries

Electrically conductive fillers for paste, glue and inks

Additive for thermal interface material

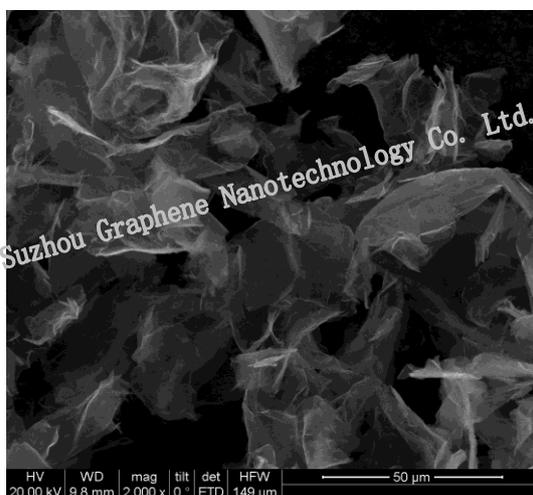


- Thermally conductive films and coatings
- Additive for anti-corrosive coating
- Energy storage materials (Ultracapacitor electrodes, active materials for lithium-ion batteries)
- Films or coatings for EMI shielding
- Substrate for chemical and biochemical sensors
- Barrier material for packaging

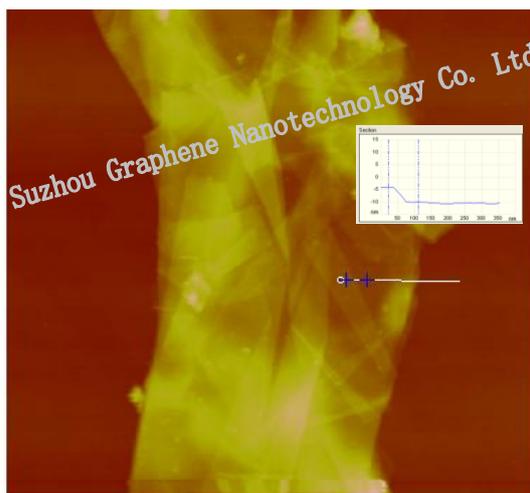
4. Product characterizations



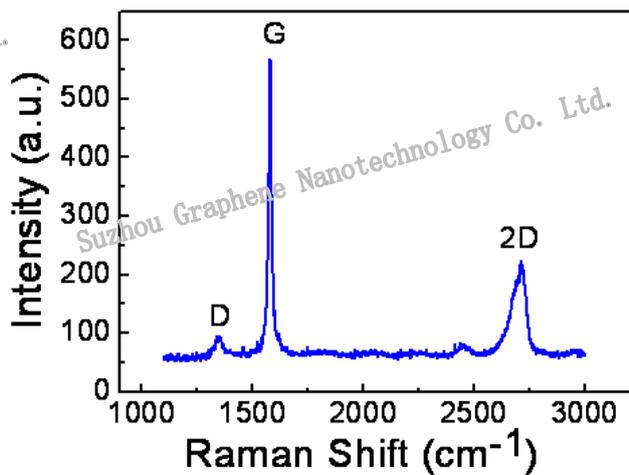
Optical image



SEM image



AFM



Raman



Direction for use

1. Can be suspended in water with some dispersing agents
2. Can be dispersed in some solvent, such as NMP, DCE.
3. Before using, it should be dried in drying oven to removal moisture.
4. When using, wear a mask to avoid into the lungs.

Handling and storage:

Handling:

Avoid contact with skin and eyes. Keep away from sources of ignition. Avoid generating dust as the product may form explosive dust/air mixtures. Graphene is electrically conductive, and care should be taken to avoid accumulation of dust/powder where it may cause electrical shorting. Use only in well-ventilated areas.

Storage:

Avoid strong illumination. Keep away from sources of ignition. Keep out of the reach of children. Keep container tightly closed and dry.