



Highly conductive thin graphene nanoplatelet aqueous slurry

1. Product Name and Code:

Name: Highly conconductive thin graphene nanoplatelet aqueous slurry

Code: GRF-HGS-01

Specification: 1 kg 2 kg 5 kg 10 kg

Package: Plastic barrel



2. Application field:

This product is thin graphene nanoplatelet-based aqueous slurry with high electrical conductivity. It is non-toxic, non-strang odor, non-corrosive characteristics, chemical stability, and low resistivity. By contrast with the similar products, this product with technical advantages is metal ion free and can be widely applied in battery slurry as conductive agent to improve the high rate charge-discharge capacity. Various types of battery electrode materials conductive additives, such as lithium ion battery, nickel hydrogen battery, alkaline (manganese dioxide) battery cathode or anode material conductive agent.



- Lithium ion and nickel-hydrogen battery—as high conductive components in battery slurry.
- Supercapacitor —conductive reagents of the supercapacitor electrodes.
- Specialty printing, 3D printing, electronic printing industry conductive inks, such as screen printing, offset printing, RFID (radio frequency identification)
- Printed circuit board(PCB) of electronic production, such as Printed membrane switches, control equipment, industrial computers, telecommunications equipment.
- Other conductive industry.

3. Parameter

| Composition | Content | Unit |
|-----------------------------|-----------|------|
| Thin graphene nanoplatelets | 1-10 | wt% |
| Dispersant | 1-5 | wt% |
| Assistant reagent | 1-5 | wt% |
| Water | 80-95 | wt% |
| Viscosity | 2000-9000 | mPas |

4. Product instructions

- The product is black or leaden viscous liquid. A little precipitation may be appear but not harmful. Shake well or stir after stored for a long time.
- The product should be sealed and stored in a dry dark environment and the temperature should not be higher than 40 °C. Keep away from fire, harmful gas, volatile or pollution substances.
- Packing: plastic bottles or drums.



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. Good housekeeping is important to prevent accumulation of dust. Graphene is electrically conductive; care should be taken to avoid accumulation of dust/powder where it may cause electrical shorting. Use only in well-ventilated areas. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:

Keep out of the reach of children. Keep container tightly closed and dry.