



Technical Data Sheet

ACS Material Graphene Dispersion in Water (Dia:1-3 μ m)

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1. Preparation Method

Physical exfoliate method

2. Characterizations

Composition	Content	Unit
Graphene Nanoplatelets	5	wt%
Flake Diameter	1-3	μm
Thickness	3-5	nm
Viscosity	1-3	Pa·s
Water	94.5	wt%
Dispersant	0.5	wt%
Density	0.06-0.09	g/ml

3. Application Fields

This product is a graphene nanoplatelet-based oily battery slurry with high electrical conductivity. 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.

- Lithium ion and nickel-hydrogen battery — as high conductive components in battery slurry.
- Supercapacitor — conductive reagents of the supercapacitor electrodes.
- Lead acid cell, solar cell and semiconductor industry.
- Other conductive industry.

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