



GRAPHENE DISPERSION LIQUID

Product Description

MstnLand's graphene dispersion liquid is made of natural graphite and processed by chemical reoxidation process to obtain rGO. It has the advantages of high purity, large specific surface area, high stability, good compatibility with organic and inorganic materials, easy to disperse and grind, and can be used with polymer composite materials, coatings, coating materials and lubricating materials.

Technical specifications

Item	Parameter
Dispersant	Deionized water, ethanol, NMP and so on
Colour	black
PH Level	5 ~ 7
Dispersion Concentration	0.5 ~ 10 mg/ml
Single-Layer Ratio	> 98%
Thickness	0.6 ~ 1.0 nm
Lamellar Diameter	0.5-5 um
Analysis and testing	Infrared, XPS, Raman, XRD, TGA, SEM, TEM
Concentration	0.5mg/mL, 1mg/mL, 2mg/mL, 5mg/mL, 10mg/mL
Packaging	50ml/bottle, 100ml/bottle, 250ml/bottle, 500ml/bottle, 1000ml/bottle

Product advantages

- Dispersants are optional (water, ethanol, NMP, etc.)
- Compared with GO, reduced GO largely repaired the defects introduced by the oxidation process, and the electrical conductivity was significantly improved.
- The powder of reduced GO is treated by special process, and the powder remains fluffy with high specific surface area.
- Compared with conventional graphene, reduced GO still retains some oxygen-containing functional groups, and is significantly better than GO in terms of stability. As an adsorption material, it can adsorb heavy metals and organic dyes with very obvious effect.
- It has good dispersion stability in water and most polar organic solvents.
- Good wettability and surface activity, can be stripped by small molecules or polymer intercalation.
- It can improve the thermal, electrical, mechanical and other comprehensive properties of materials.

Applicable fields

- Fields of adsorption materials, thermal insulation materials, polymer composite materials, coating, coating materials and lubricating materials and so on.
- Field of antistatic.
- Field of corrosion protection.

Disposal and Storage

Operators should wear appropriate protective clothing and gloves, avoid direct contact with skin, and immediately rinse with plenty of water once entering eyes. Store tightly in a cool, ventilated and dry environment. Use as soon as possible after unpacking. The recommended storage temperature is from 5 to 35°C. Keep away from tinder and heat source, and store separately with strong reducing agent and flammable substance.