

2DD-W Technical Data Sheet

Description

2DD-W is an aqueous suspension (dispersion) of multilayer graphene, in which graphene particles are presented in the form of packages, mainly from 3 to 10 sheets.

Produced in a patented manner by exfoliation of graphite in an aquatic environment.

Application

The product is an activator of the strength properties of the matrix, increases its thermal and electrical conductivity, impact strength and resistance to aggressive media.

Can be used e.g. for absorption and shielding of electromagnetic waves, modification of building concrete, protective coatings, adhesives, composites, etc.

This suspension can serve as a basis for the production of materials with specified and controlled properties by introducing colloidal liquids into the suspension and creating complex heterosystems.

After agreement with the customer, it is possible to additionally modify this suspension with the required substances.

Features and properties

- Form	suspension
- Average particle size, μm	7-10
- Number of graphene sheets	<10
- Color	dark grey to black
- Dispersion medium	water
- Concentration (wt%)	5
- pH	6.8-7.2
- Carbon content, %	≥ 98
- Specific surface area, m^2/g	>25
- Packaging, liters	0.25; 0.5; 1; 5; 10