

2DD-WK Technical Data Sheet

Description

2DD-WK 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, giving it new technical and physical properties.

It can be used in particular in the production of composite materials, in energy converters, lithium-ion batteries, as a catalyst support, etc.

This suspension can serve as a base 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	black
- Dispersion medium	water
- Concentration (wt%)	5
- pH	6.4-6.9
- Carbon content, %	76-82
- Oxygen, %	14-19
- Specific surface area, m^2/g	>25
- Packaging, liters	0.25; 0.5; 1; 5; 10