

2DD-OL Technical Data Sheet

Description

2DD-OL is a suspension (dispersion) of low-layer graphene in industrial oil, 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 liquid media.

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.

It can be used in particular in the production of composite and conductive plastic materials, for reinforcing rubber products, in energy converters, anodes of lithium batteries, 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	oil
- Concentration (wt%)	3
- pH	6.8-7.0
- Carbon content, %	≥ 98
- Specific surface area, m^2/g	>30
- Packaging, liters	0.25; 0.5; 1; 5; 10