



GRAPHENE (MULTI-LAYER) NANOPOWDER

Multi-Layer Graphene Nano Powder, characterized i.e. by 5-7 layers of graphene (more or less layers possible upon demand), is a state-of-the-art nanoparticle material. Each individual layer has a thickness in the nanometer range, and the high surface area to volume ratio of this material offers properties distinct from its bulk counterpart. This groundbreaking material displays exceptional physical and chemical characteristics that render it suitable for a broad range of industrial applications.

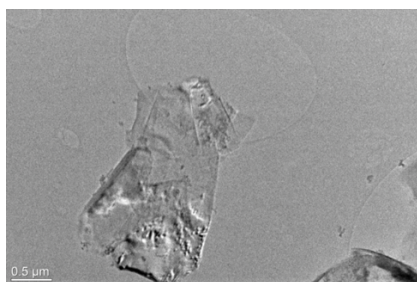
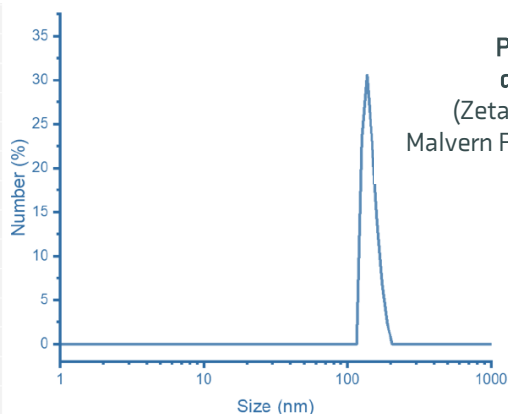
EXTENSIVE CHARACTERISATION DATA

To ensure uncompromised product quality, each particle batch is analysed and characterized using the latest quality control techniques including dynamic light scattering (DLS), Scanning Electron Microscopy (SEM), transmission electron microscopy (TEM) and Brunauer-Emmett-Teller (BET) analysis. A specific quality control certificate will accommodate every batch. Additional customer-specific characterization requirements can be agreed upon.

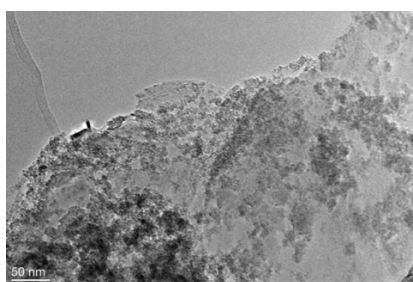
The below is just an example of many different types of **Nano (Multi-layer) Graphene Powder** and materials we can produce for our customers, also much below that size.

MATERIAL CHARACTERISTICS

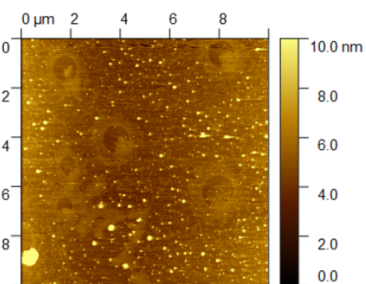
Chemical name	Graphene (Multilayer)
Formula	C
Molecular weight	12.01 g/mol
Physical state	Solid
Appearance (Form)	Powder
Appearance (Color)	Black
Purity	99 %
Particle size	100 - 155 nm
Pore size (BET)	3.1 nm
Surface area (BET)	13.7 m ² /g
Zeta potential	-16.7 mV
Conductivity/Resistance	18.8 S/m
pH	7.0
Monolayer content	5 – 7 layers



TEM Image



TEM Image



AFM Image

APPLICATIONS

- Energy Storage
- Conductive Inks and Coatings
- Polymer Composites
- Sensors
- Catalysis
- Thermal Management Materials
- Biomedical Applications