






**PRODUCT TECHNICAL DATA SHEET FOR GRAPHENE OXIDE DISPERSION/PASTE**

The oxidized form of graphene is graphene oxide (GO). It is a cheap and easily accessible single-atomic layered material that is formed by the oxidation of graphite. Because graphene oxide is dispersible in deionized water and other solvents, its processing is simple. In addition to dispersions in different concentrations, we also serve pastes.

**APPLICATION AREAS**

- RESEARCH AND DEVELOPMENT
- CONSTRUCTION MATERIAL
- PAINT AND COATING
- COMPOSITES
- WATER FILTRATION
- PLASTIC & POLYMER COMPOUNDS
- OIL AND LUBRICATION

**PROPERTIES**
**Form:** Dispersion/Paste/ Aqueous Solution
**pH Range (at 25 °C):** ~2,5
**Color:** Dark brown
**Odor:** Odorless
**Dispersibility:** Polar solvents (water, ethanol, DMF, etc.)
**Concentration:** It can be prepared in the desired solution in the desired concentration according to demand. 4 g of GO content in 1000 mL (0.4 wt% Concentration)

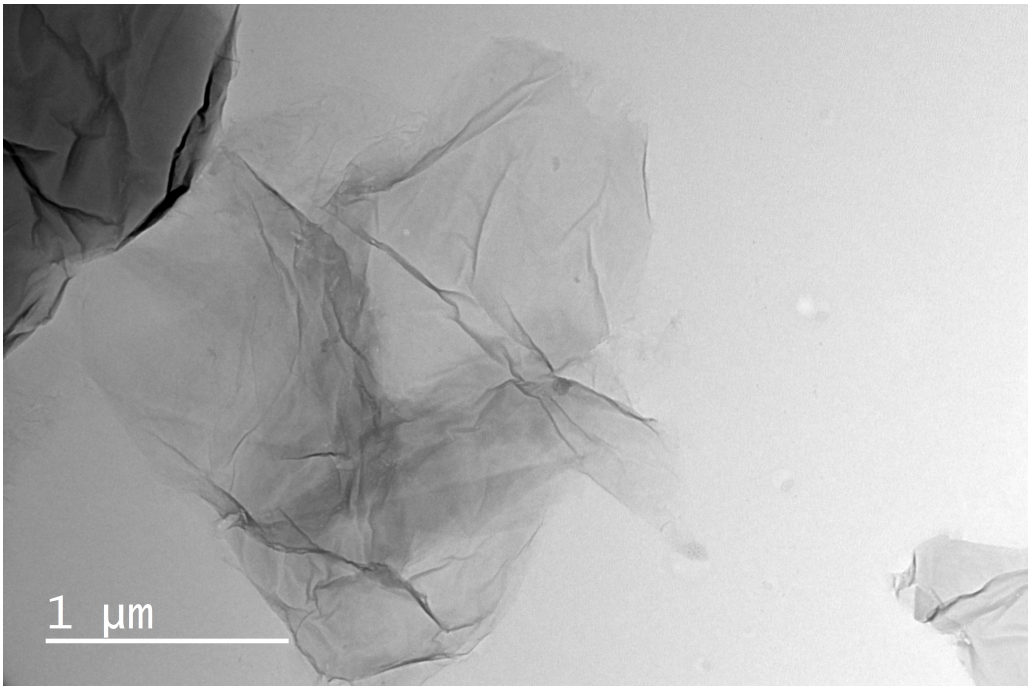
**Sample Details**

Graphene oxide dispersion/paste form

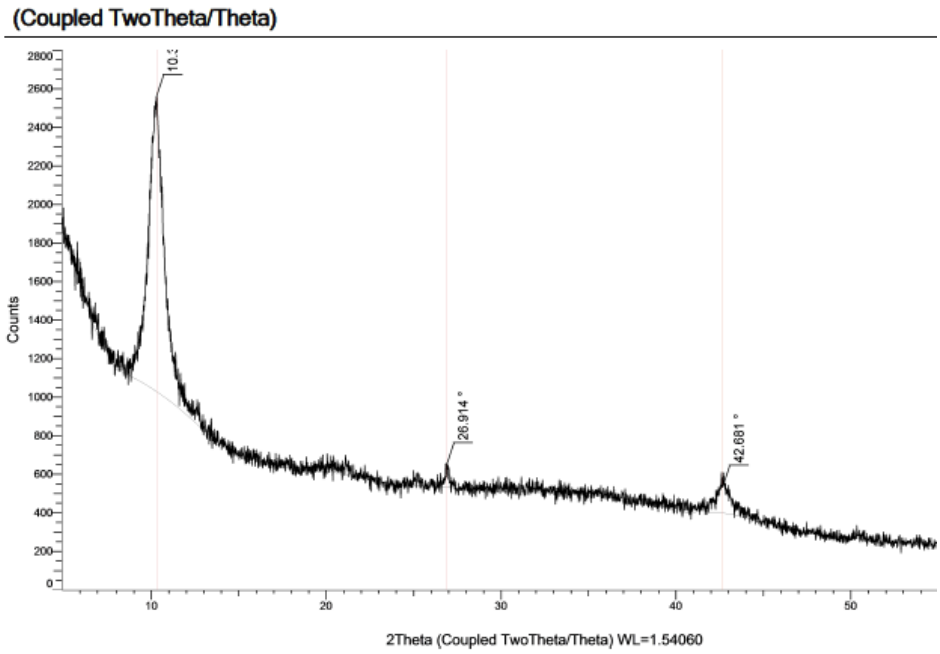
**Analysis Results**

**HR-TEM Analysis**

High-resolution transmission electron microscopy (HR-TEM, JEOL JEM-2100F) was used to investigate the morphology of the graphene oxide. The samples for HR-TEM were prepared by placing a drop of colloidal solution onto a carbon-coated copper grid.



**X-Ray powder Diffraction (XRD)**




**Interlayer spacing, d-spacing:** 8.57 A°

**X-ray Photoelectron Spectroscopy (XPS)** **C/O Ratio: 1.85-2.45**

| Name | C1s | O1s | S2p | Si2p |
|---|---|---|---|---|
| Avg % | 61.85-69.21 | 28.87- 34.33 | 0.00- 1.10 | 0.00- 0.86 |