



11, Gujarat Laghu Udhog Vikas Mandal
Estate, Nr. Shani Dev Temple, Dhobighat
Road, Shahpur, Ahmedabad-380004
Gujarat

NRG - 600

Description

Reduced Graphene Oxide nanoplatelets (NRG) are high purity, low defect, few nanometer thin platelets of pure carbon. They are produced in several grades and sizes through the proprietary manufacturing process. The unique size and platelet morphology makes them especially effective as electrodes for energy storage. NRG sheets are compatible with almost all polymers making them a suitable active ingredient for inks and coating.

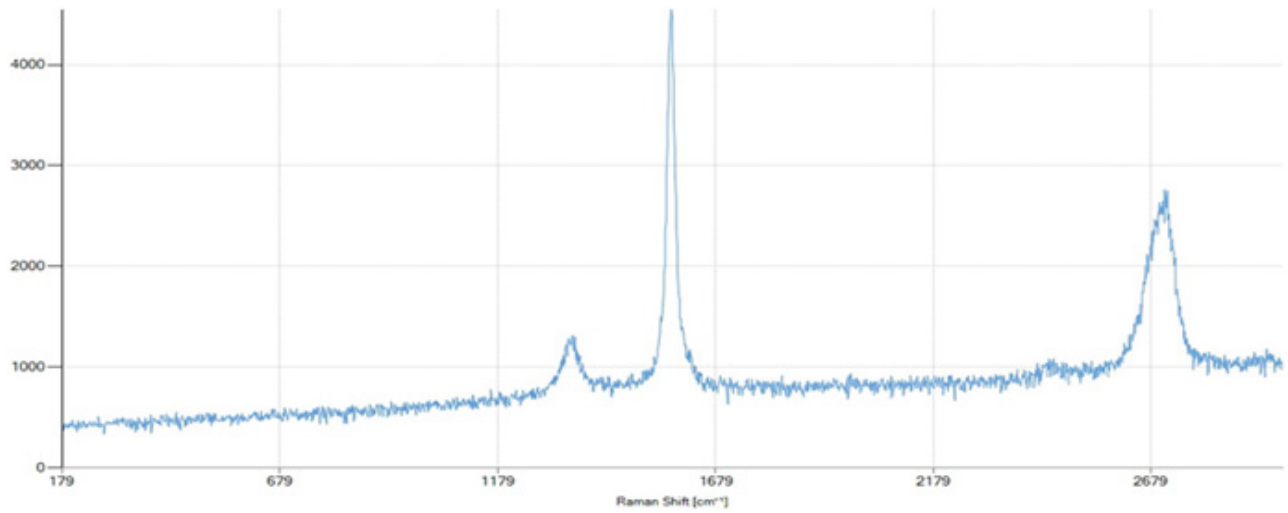
Properties

Appearance	Black Fluffy powder
Carbon	> 90%
Oxygen	<10%
Residual Acid	< 0.5%
Surface Area (m ² /gm)	600 - 750
Bulk Density (gm/cc)	0.02
Lateral Size (Micron)	0.5 - 15
Thickness (nm)	1.2 - 7

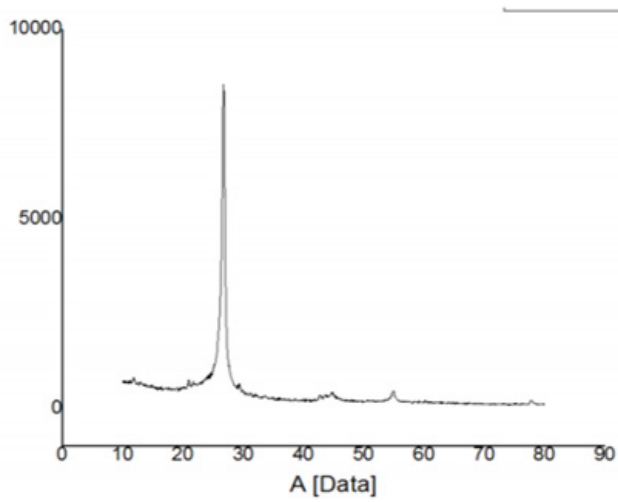
Applications

- Anode material for Lithium – Ion batteries
- Additives for Lubricants
- Barrier Coatings for anti-corrosion
- Barrier Coatings for packaging
- Chemical and biochemical sensors
- Super capacitors
- Electrical Conductive Inks
- Thermally conductive inks and Coatings
- Heat Spreaders
- Additive for metal – matrix composites
- Thermal Interface Materials

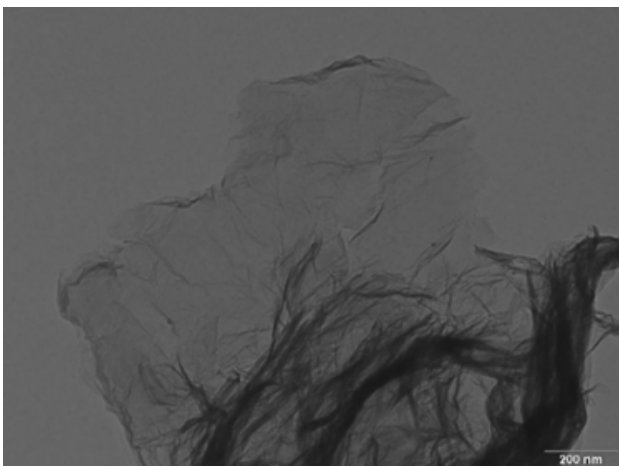
Raman Spectroscopy Result



XRD Result



SEM Test Image



HR - TEM Test Images

