

Technical Specification Datasheet

Product Name: Graphene Nanoplatelets or Industrial Graphene

Product Series: Graph-Nanoplate

Form: Powder form

Colour: Black

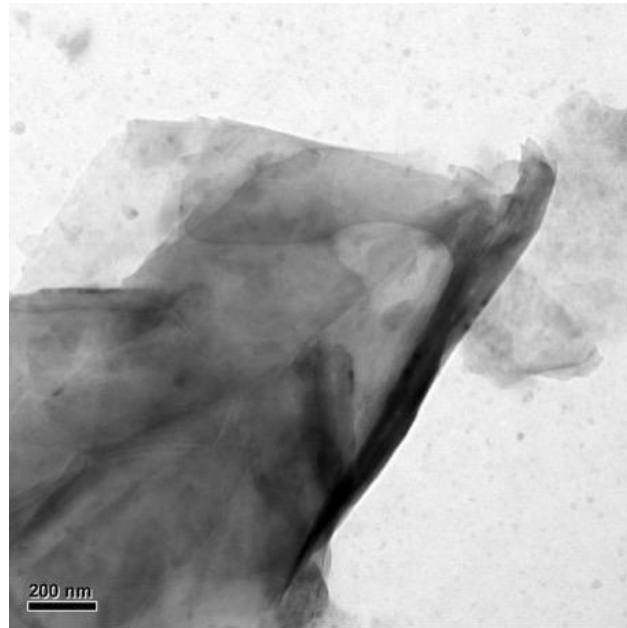
Packing Size: 10gram, 100gm, 1kg and more

Properties:

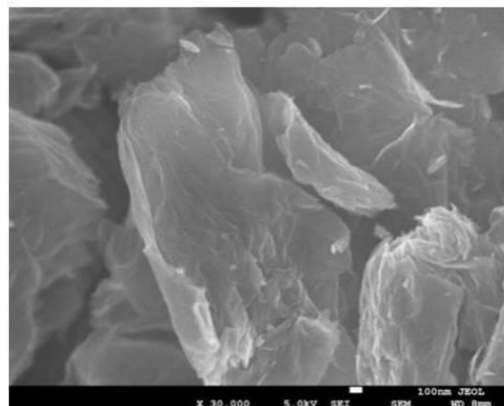
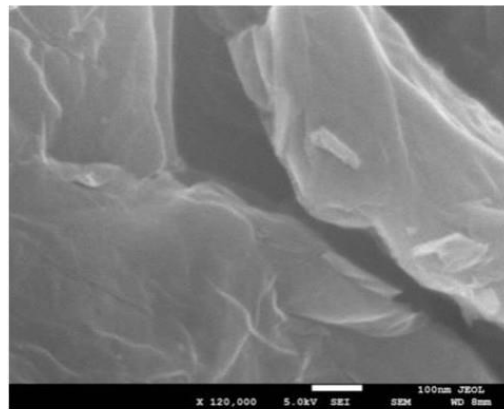
Specifications	Values
Thickness	~ 5 - 10 Nm
Carbon Purity	~99%
Number Of Layers	Average Number Of Layers 5 - 10
Surface Area (Bet)	60 - 200* m ² /g
Bulk Density	0.1 g/cm ³
Chemical Formula	C
CAS No.	7782 - 42 - 5
Electrical Conductivity	Insulator [Tuneable To Conductor]
Average Lateral Dimension(X&Y)	~10 μm
Physical Form	Fluffy, Very Light Powder
Odour	Odourless
Colour	Black Powder
Oxygen Content	5%

Density	Parallel to surface	Perpendicular to Surface
Thermal	Conductivity 3,000 watts/m-k	6 watts/m-k
Tensile Modulus	>1,000 Gpa	Not Applicable
Tensile Strength	>5 Gpa	Not Applicable
Electrical Conductivity	107 Siemens/m	102 Siemens/m

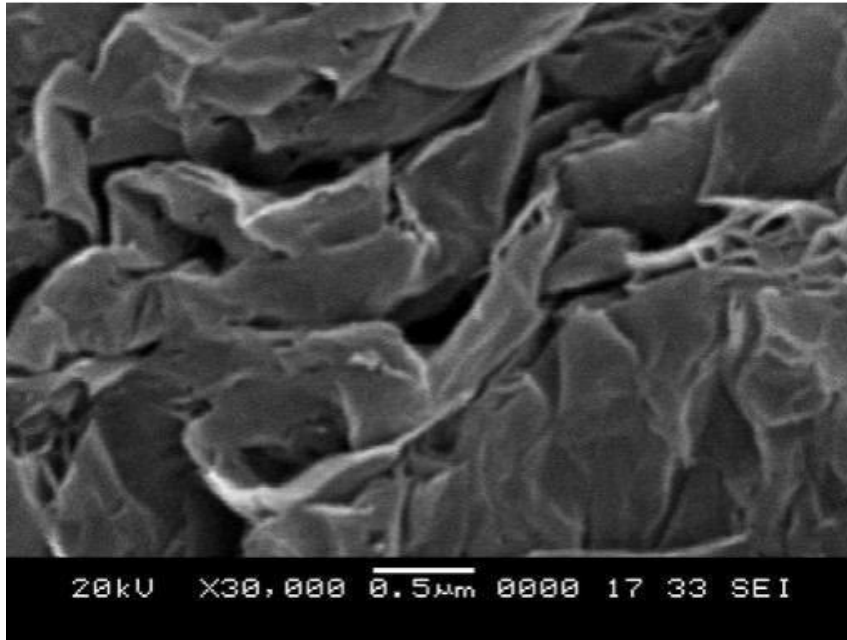
HR-TEM



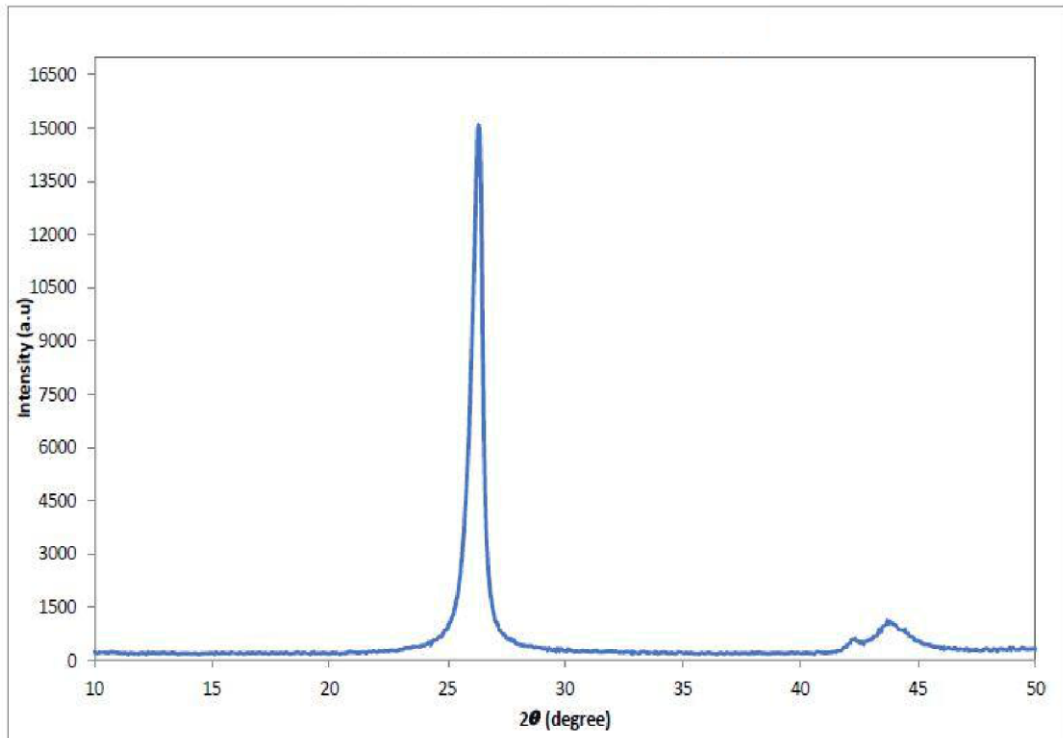
FE-SEM



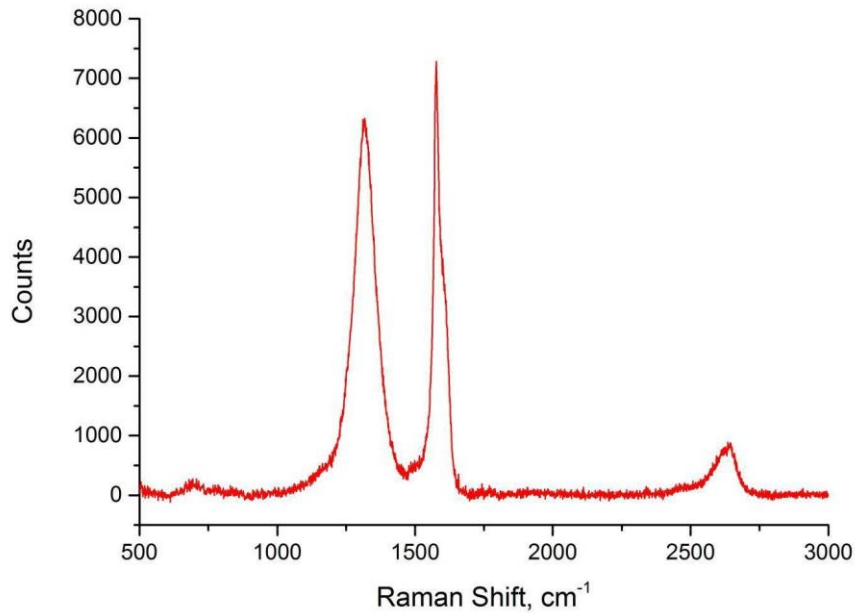
SEM



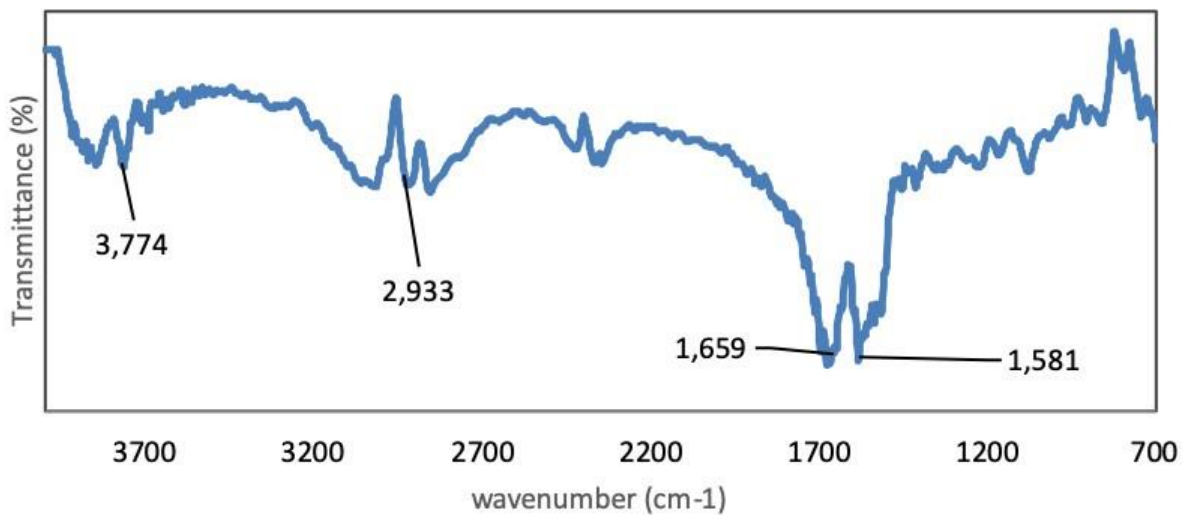
XRD



RAMAN ANALYSIS



FTIR



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