

Certificate of Analysis

Graphene Nanoparticle

CAS #	EC Number	Hill Formula	Molar Mass
7782-42-5	231-955-3	C	12.01 g/mol

Description	
Catalogue Number	104206
Product Information	
CAS number	7782-42-5
EC number	231-955-3
Hill Formula	C
Molar Mass	12.01 g/mol
HS Code	3801 10 00
Quality Level	Qwtr

Physicochemical Information**Density** 2.2136 g/cm³ (25 °C)**Melting Point** 3652 °C**pH value** 5 - 6 (50 g/l, H₂O, 20 °C) (slurry)**Bulk density** 280 kg/m³**Safety Information according to GHS****Storage class** 10 - 13 Other liquids and solids**WGK** NWG not water endangering**Disposal**
3
Relatively unreactive organic reagents should be collected in container A. If halogenated, they should be collected in container B. For solid residues use container C.**Storage and Shipping Information****Storage** NoTempLimit**Specifications****Substances soluble in Ethanol** ≤ 0.2 %

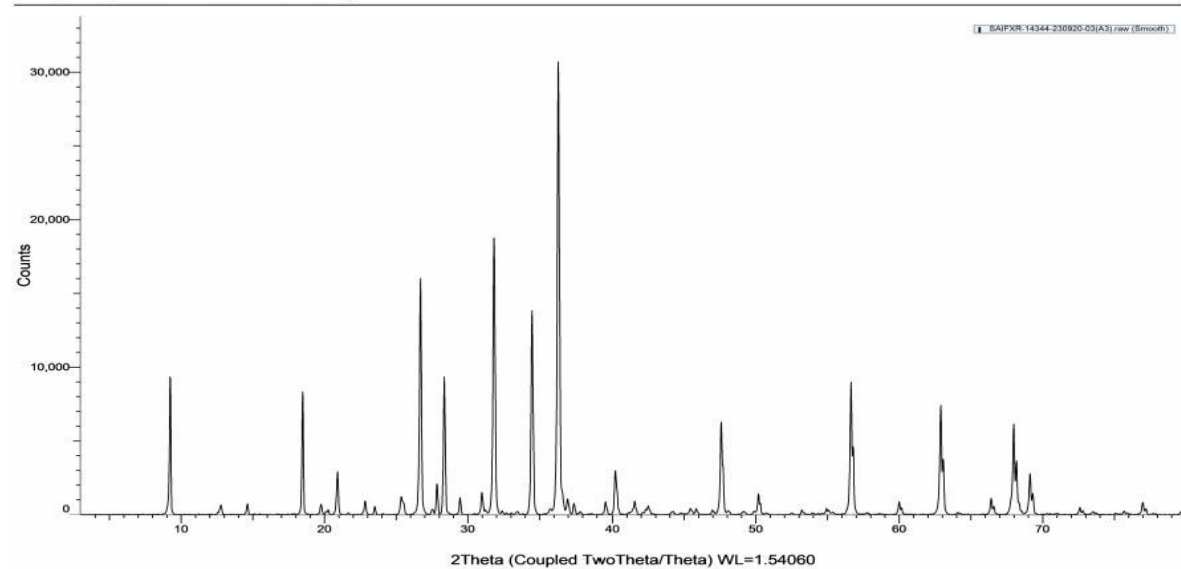
Specifications	
Residue on ignition (800 °C)	$\leq 1 \%$
Particle size (< 50 μm)	$\geq 99.5 \%$
Bulk density	20 - 30 g/100 ml
Loss on drying (120 °C)	$\leq 0.5 \%$
NANOPARTICAL SIZE XRD PSA	20nm , 30nm ,

XRD

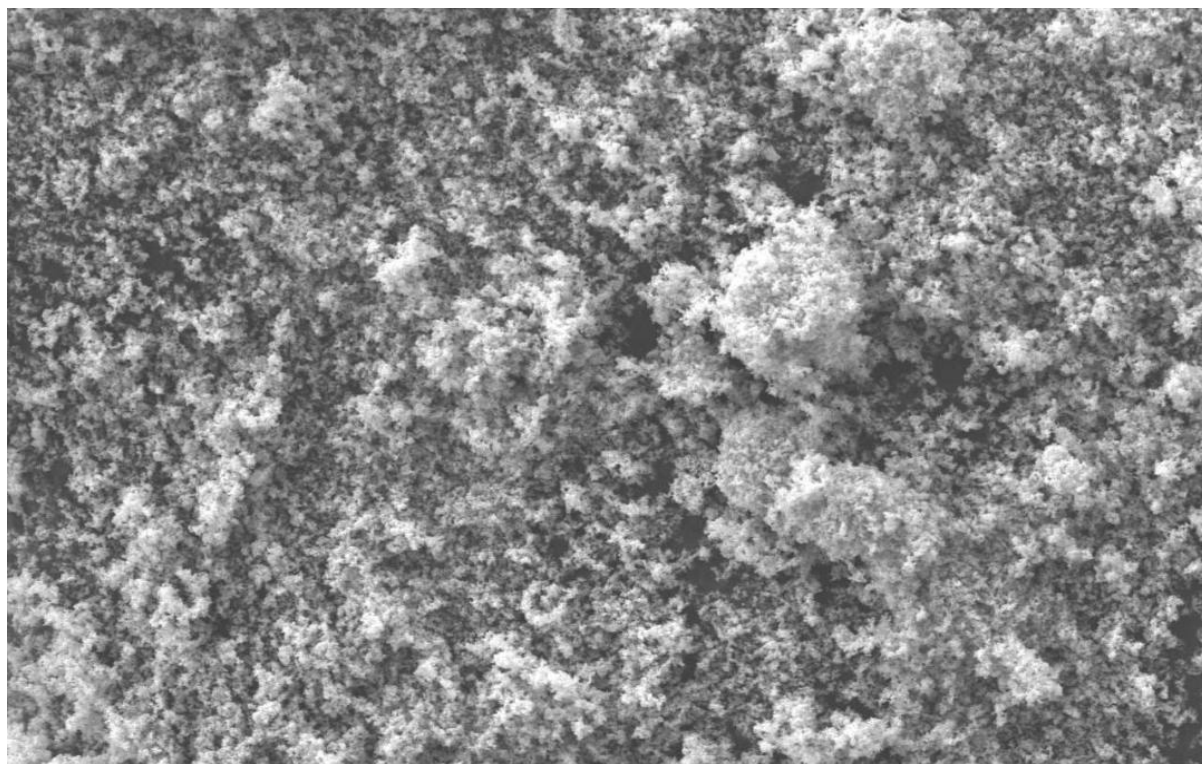


X-Ray Diffractogram- SAIF Kochi

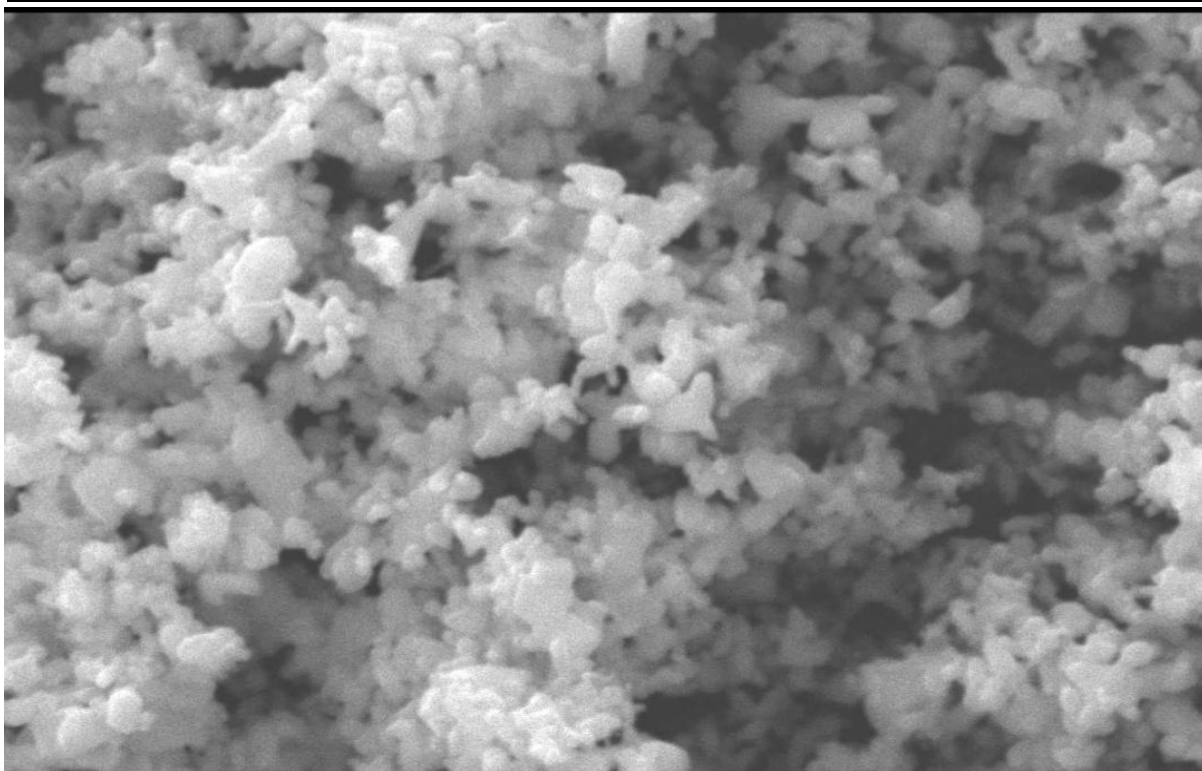
A3 (Coupled TwoTheta/Theta)



SEM



20kV X1,000 10μm 0093 14 47 SEI



20kV X10,000 1μm 0093 13 47 SEI

