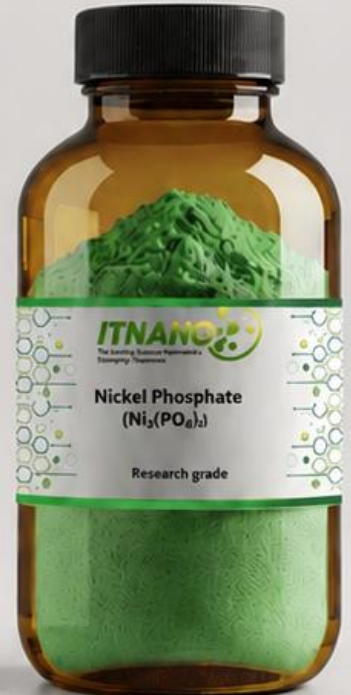


2026 Products Catalog



ITNANO

The Leading Advanced Materials Company in Indonesia



ITNANO (CV. Inovasi Teknologi Nano) is a nationally registered brand (IDM000960929) providing high-performance, laboratory-grade functional materials for global research and industrial applications.

Backed by NRE Lab (est. 2020) Indonesia's first private nanomaterials research startup and the **Titian Research Group**, we bridge the gap between advanced material science and commercial scalability

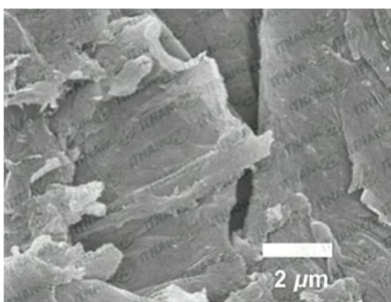
- **Core Product Portfolio:** High-purity Graphene (and derivatives), 2D Materials (MXene and MoS₂), Metal-Organic Frameworks (MOFs), advanced Metal Oxides ZnO, TiO₂, MnO₂, etc.), and conductive polymers.
- **Target Applications:** Next-generation battery technology, advanced composites, solar-driven interfacial evaporation (SDIE), seawater desalination, and supercapacitors.
- **Commercial Availability:** Designed to empower R&D departments and industries, our standardized materials are readily accessible online via **Tokopedia, TikTok Shop, and Shopee.**

GRAPHENE SERIES

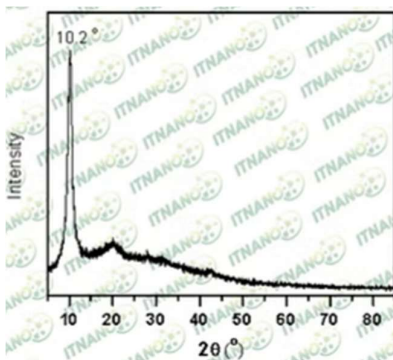
GO Graphene Oxide

CAS No.	Description	Unit Sizes
2640657-49-2	Graphene Oxide Powder	1 gr, 2 gr, 5 gr and 10 gr (solid form)
	Graphene Oxide Dispersion	10ml, 60 ml, and 100 ml (dispersion)
	Graphene Oxide Paste	56 gr

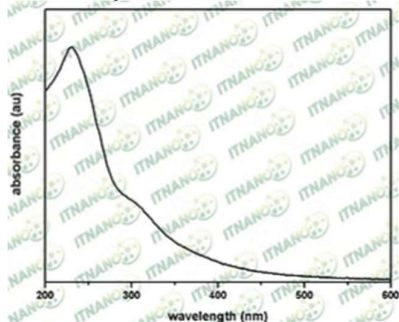
SEM Image



XRD Pattern



UV-VIS Spectrum



Properties	
Purity	99 %
Grade	Research Grade
Form	Dark Brown Flake
Solubility	water
Molecular Formula	$C_{140}H_{42}O_{20}$
Molecular Weight	2043.8
Graphene Oxide Layers	6-7 Layers (XRD)
Element Carbon (C)	81.0 wt%
Element Oxygen (O)	19.0 wt%
Element Sulfur (S)	0.1 wt%
Raman (I_D/I_G Ratio)	0.95
UV-VIS Spectrophotometer (Peak)	230 nm
BET Surface Area	110 m ² /g

APPLICATIONS:

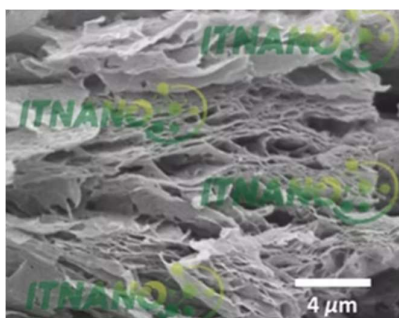
Paint Additives, Composite Materials, Anti-Corrosion Materials, Conductive Materials, Coatings, Sensors, Electromagnetic Shielding, Photocatalysts, Solar Cells, Supercapacitors, and Battery Materials.

rGO

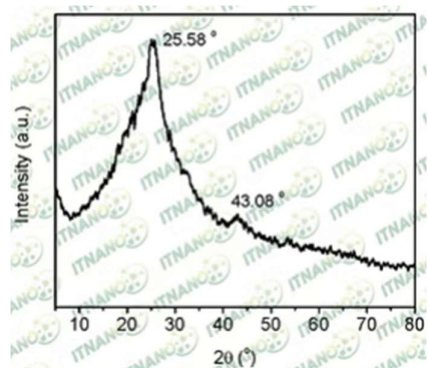
Reduced Graphene Oxide

CAS No.	Description	Unit Sizes
1034343-98-0	Reduce Graphene Oxide	1 g, 2 g, 5 g, 10 g and 20 g

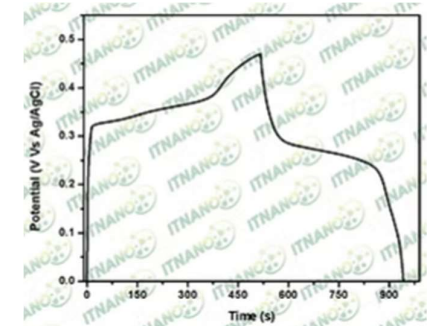
SEM Image



XRD Pattern



GCD RGO



Properties	
Purity	97 %
Grade	Research Grade
Form	Fine Black Powder
Molecular formula	C _x H _y O _z
Reduce Graphene Oxide Layers	10-20 Layers (XRD)
Element Carbon (C)	85.6 wt%
Element Oxygen (O)	11.5 wt%
Impurities (Cl, S and K)	~ 3 wt%
Conductivity	>500 S/m

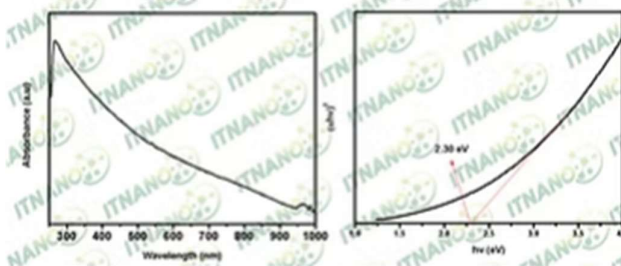
APPLICATIONS:

Paint Additives, Composites Materials, Anti-Corrosion, Conductive Materials, Coating, Sensor, Electromagnetic Shielding, Photocatalysts, Solar Cells, Supercapacitor, Battery, Etc.

rGO-COOH Carboxyl Graphene

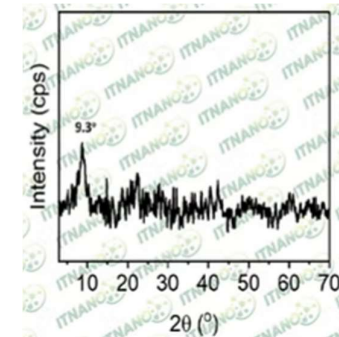
CAS No.	Description	Unit Sizes
7782-42-5	Carboxyl Graphene	1 g, 2 g, 5 g and 10 g

UV-VIS Spectrum



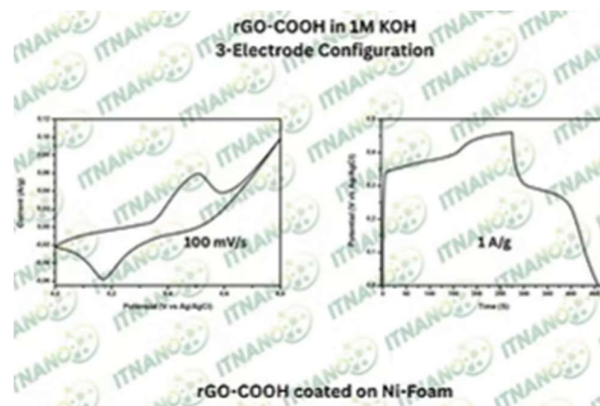
Properties	
Purity	98%
Grade	Research Grade
Form	Black
Molecular formula	rGO-COOH

XRD Pattern



APPLICATIONS:

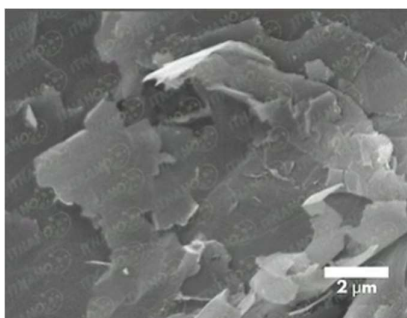
Sensors, Drug Delivery Systems, Water Treatment, Anti-Fouling and Anti-Corrosion Applications, As Well As Energy Storage Devices Such as Supercapacitors and Batteries.



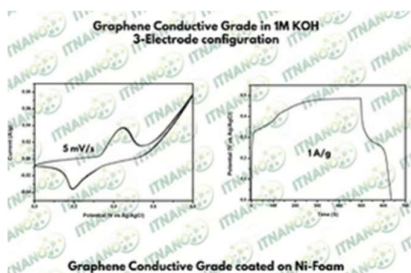
Graphene Conductive Grade

CAS No.	Description	Unit Sizes
1034343-98-0	Graphene Conductive Grade	1 g, 2 g, 5 g and 10 g

SEM Image



Properties	
Grade	Research Grade
Form	Greyish Black Powder
Electrical Conductivity	8000 - 14000 S/m
Electrochemical Capacitance	548.38 F/g @ 1 A/g



APPLICATIONS:

Flexible Electronics, Printed and Wearable Devices, And Transparent Conductive Films due to its High Electrical Conductivity and Large Surface Area. It Is also applicable for Electrode Performance Enhancement, Heavy Metal Detection, and Rapid, Selective CO_2 Adsorption



Graphene Aerogel

Description	Unit Sizes
Graphene Aerogel	pcs



Aerogel Biomassa

Description	Unit Sizes
Aerogel Biomassa	pcs



Graphene Hydrogel

Description	Unit Sizes
Graphene Hydrogel	pcs