ITNANO
THE LEADING ADVANCED MATERIALS COMPANY IN INDONESIA

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 MoS_2), Metal-Organic Frameworks (MOFs), advanced Metal Oxides ZnO, TiO_2, MnO_2, 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**.

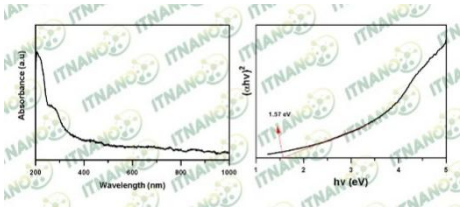
METAL

SULFIDE

FeS^2 Iron Sulfide

CAS No.	Description	Unit Sizes
12068-85-8	Iron Sulfide	1 g

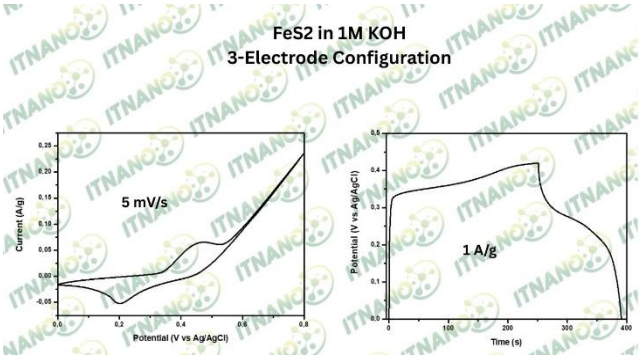
UV-VIS Spectrum



Properties	
Purity	97-99 %
Grade	Research Grade
Form	Grayish Brown Powder
Molecular Formula	Fes2
Molecular Weight	119.97 G/Mol
Band Gap Energy (Eg)	1.57 Ev
Electrochemical Capacitance	333.43 F/G @ 1 A/G

APPLICATIONS:

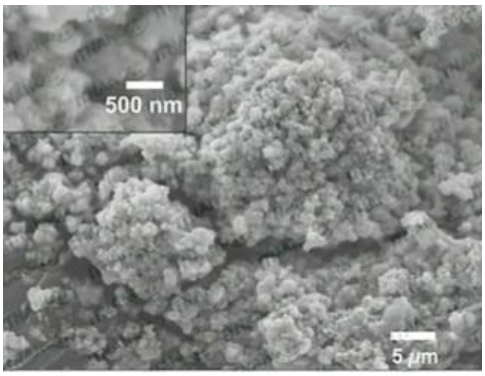
Batteries and Supercapacitors, as an Electrocatalyst, a Photocatalyst for Pollutant Degradation, and as a Sensor and Adsorbent Material due to its High Capacity and Excellent Electrochemical Properties.



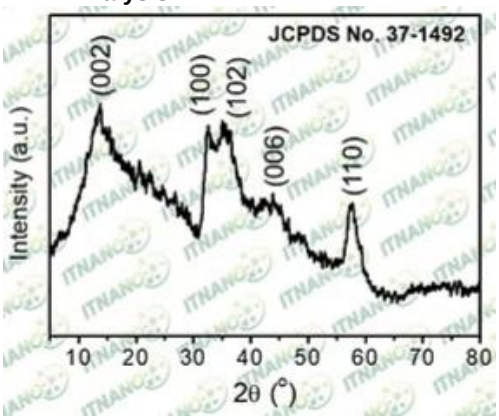
MoS_2 Molybdenum Disulfide Nanoflowers

CAS No.	Description	Unit Sizes
1317-33-5	Molybdenum Disulfide Nanoflowers Powder	1 g, 2 g, 5 g, and 10 g

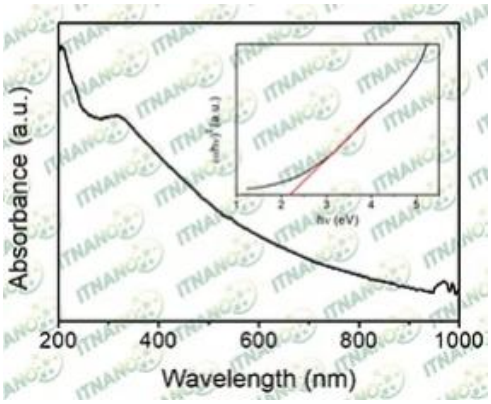
SEM Image



XRD Analysis



UV-VIS Analysis



Properties	
Purity	99 %
Grade	Research Grade
Form	Black Powder
Molecular formula	MoS_2
Molecular weight	160.07 g/mol
XRD (Structure))	Hexagonal 2H-MoS2, Interlayer 0.64 nm
SEM (Particle Size)	~ 490 nm
UV-VIS (Bandgap)	2.19 eV
Electrochemical Capacitance	581 F/g @ 1 A/g

APPLICATIONS:

Powder can be used as Composite Material, Photocatalyst, Hydrogen Production, Sensor, Electromagnetic Shielding, Solar Cells, Supercapacitor, and Battery.