

NS6130-02-242

MOLYBDENUM DISULFIDE

Nanoparticles

Quick Facts

Product	:	Molybdenum disulfide Nanoparticles
Stock No	:	NS6130-02-242
CAS	:	1317-33-5
Molecular Formula	:	MoS ₂
Form	:	Powder

Purity
99.9%

Technical Specification

Molecular Weight	Density	Melting Point	APS
160.07g/mol	4.8g/cm ³	1185°C	80-100nm

Molybdenum disulfide is an inorganic compound composed of molybdenum and sulfur. Its chemical formula is MoS₂. Advanced applications are also emerging in FETs, energy storage, gas sensors, and many other electronic and photo-electronic devices. MoS₂ powder is used for applications in thermoelectric-devices, sensors, LEDs, OPVs, and energy storage devices. MoS₂ powder also offers extreme pressure lubricant properties. MoS also possesses mechanical strength, electrical conductivity, and can emit light, opening possible applications such as photodetectors. MoS is being investigated as a component of photoelectrochemical applications and for microelectronics applications

Application

- ✓ Thermoelectric-devices, sensors, LEDs, OPVs
- ✓ Energy storage devices.
- ✓ Photocatalytic hydrogen evolution
- ✓ Bioimaging and electrochemical lithium storage.

MoS₂
APS 80-100nm



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