NANOSHEL
Creating Miracles in Black

CADMIUM SELENIDE
Cadmium Sulphide
Core Shell
Nanoparticles

99%
(Purity)

Stock no:
NS6130-12-000513

Core–shell nanoparticles are a class of nanostructure materials that have recently received increased attention owing to their interesting properties and broad range of applications in catalysis, biology, materials chemistry and sensors. Covering a thin surface layer on fine particles can alter their usefulness and properties, such as stability, dispersal ability and catalytic and optical properties. Cadmium Selenide Cadmium sulphide core-Shell nanoparticles have received tremendous interests in various applications compared to the cadmium selenide nanoparticles due to several important features such as exhibit higher surface area, the existence of a synergistic effect between the core and the shell. The cadmium sulfide (CdS) is an important II–VI semiconductor with many excellent physical and chemical properties.The core-shell Nanostructure varies with different sizes and different shapes of core and shell thickness with different surface morphology.

Chemical Identifiers

Purity	:	99 %
Chemical name	:	CdSe/CdS
Shape	:	Spherical
Form	:	Powder
Core	:	Cadmium selenide
Shell	:	Cadmium sulphide

Properties

- ✓ Large Surface Area
- ✓ High thermal stability
- ✓ Chemical tailor ability

Applications

- ✓ Construction composites
- ✓ Gas Sensor
- ✓ Detectors for laser
- ✓ Solar cells
- ✓ Catalysis technology
- ✓ Luminescence devices
- ✓ Optoelectronic devices

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