

NS6130-02-255

Cadmium Sulfide Nanoparticles

Quick Facts

Product	:	Cadmium Sulfide Nanoparticles
Stock No	:	NS6130-02-255
CAS	:	1306-23-6
Molecular Formula	:	CdS
Form	:	Powder

Purity
99.9%

Technical Specification

Molecular Weight	Density	Melting Point	APS
144.47 g/mol	4.82 g/cm ³	1750 °C	0.1-1µm

Cadmium sulfide quantum dots with unique optical properties are increasingly being used in optical switches, sensors, lasers and biomedical labeling. Many of these applications require a combination of the QDs with polymers. Accordingly, several liquid processing routes have been developed to synthesize CdS/polymer nanocomposite particles. These include immobilization of CdS nanoparticles into supports, attachment of end-functionalized polymers to the QD surface, and surface modification of QDs/polymers with polyelectrolytes and in situ monomer polymerization.

Application

- ✓ Light dependent resistors/photo resistors for light sensors
- ✓ Chemical bath deposition, CBD
- ✓ Sol gel techniques
- ✓ MOCVD
- ✓ Sputtering
- ✓ Electrochemical deposition



CdS
APS 0.1-1µm



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20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
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