

NS6130-02-254

Cadmium Sulfide

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Nanoparticles

Product Cadmium Sulfide Nanoparticles

Stock No NS6130-02-254 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/cm³	1750 °C	90-100nm

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
- Chemical bath deposition, CBD
- Sol gel techniques
- MOCVD
- Sputtering
- Electrochemical deposition

APS 90-100nm











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