

# CADMIUM

SULFIDE NANOPOWDER

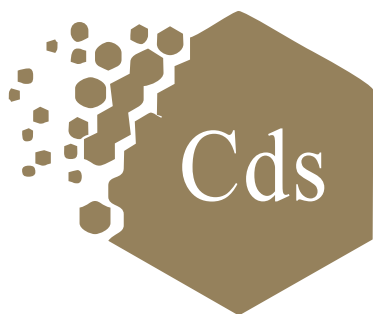
Cadmium sulfide quantum dots with unique optical properties are increasingly being used in optical switches, sensors, lasers and biomedical labeling. Many of these applications require a combination of the QDs with polymers. Accordingly, several liquid processing routes have been developed to synthesize 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.



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## APPLICATIONS

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



## SPECS

- ✓ Purity: 99.9%
- ✓ Molecular Formula: CdS
- ✓ Molecular Weight: 144.47 g/mol
- ✓ Color: Orange/Yellow
- ✓ Density: 4.82 g/cm<sup>3</sup>
- ✓ Melting Point: 1750 °C
- ✓ Boiling Point: 980 °C

All types of particles size are available in micro and nano range.

### CATALOGUE NO.

- NS6130-02-252
- NS6130-02-253



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