

CdS ZnS CORE SHELL

99.9%

(Purity)

Cadmium sulfide (CdS) is a typical semiconductor material, which exhibits excellent photoelectric properties. Although CdS has excellent photoelectric properties; it exists with some disadvantages such as photo-induced decomposition, easy oxidation and easy aggregation. In addition, CdS has great toxicity and easily pollutes the environment, which limits its application to a great degree. At present, the encapsulation structure of semiconductor nanocrystals can effectively solve these problems. There are two ways to enhance the photochemical properties and the stability. One is to modify the surface with organic compounds; the other is to form monodisperse particles with composite structure.

The core-shell nanoparticles, which break through the simple superposition in different functional substances, have attracted much attention as new types of materials.

Applications

It has practical and potential applications in light emitting diodes, solar cells, nonlinear optical devices, photoelectric sensors, bioluminescence markers and so on.

Stock no:
NS6130-12-000578

Chemical Identifiers

Purity	:	99.9%
Chemical name	:	Cds/ZnS
Core Diameter	:	80-100nm
Shell Thickness	:	20-30nm



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ISO 9001:2015
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2021CE4589C



19ZAZGO1274G



2021CE4588M

INTELLIGENT MATERIALS PVT LTD

Derabassi
Punjab (140507)
INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED

Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

NANOSHEL LLC

3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

+1 646 470 4911