



CADMIUM TELLURIDE Silicon Oxide CORE SHELL

99%
(Purity)

Core-shell type nanoparticles are a type of biphasic materials which have an inner core structure and an outer shell made of different components. Cadmium telluride silica core-shell nanoparticles have received tremendous interests in various applications compared to the bare cadmium telluride nanoparticles due to several important features such as exhibit higher surface area, the existence of a synergistic effect between the core and the shell, stabilize cadmium telluride nanoparticles against aggregation, and easily control their properties by the changing shell structure and shell geometry. Cadmium telluride Silicon oxide core shell have been considered as an attractive semiconductor material because of its size-dependent emission in the visible spectrum and high photoluminescence (PL) and quantum yield (QY). The core-shell Nanostructure varies with different sizes and different shapes of core and shell thickness with different surface morphology.

PROPERTIES

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

Stock no:

NS6130-12-000511

CHEMICAL IDENTIFIERS

Purity	:	99 %
Chemical name	:	CdTe/SiO ₂
Shape	:	Spherical
Form	:	Powder
Core	:	CdTe
Shell	:	SiO ₂

Applications

- ✓ Bio-labeling
- ✓ Bio-imaging
- ✓ Drug delivery
- ✓ Light emitting diodes
- ✓ Solar cells
- ✓ Photonic crystals
- ✓ Electroluminescent device



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20ZICE4589C



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