

CdSe

Strem offers the following Quantum Dots

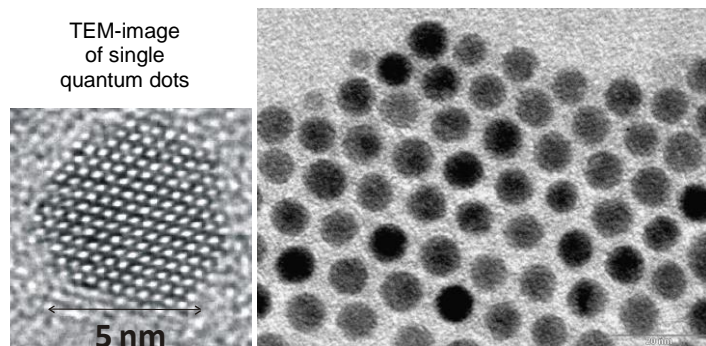
Core: CdSe



The CdSe core is highly uniform with a narrow particle size distribution ($\pm 10\%$) and proves to be a very good absorber material. They are surrounded by organic ligands (oleylamine, phosphonic compounds). This structure ideally stabilizes the quantum dot properties from the core.

Product characteristics:

- Size dependant absorption and emission properties
- Long-term stability
- Scalability (produced via continuous flow)
- High batch-to-batch reproducibility (TEM available for each lot)
- Emission range 525-625nm
- Homogeneous dispersions in different non-polar solvents possible
- Use as absorber material or coating



Structure	Ligand Capping Agent	Stability of Dispersions	Quantum Yield	Emission Range
CdSe core	Oleylamine	6 months	low	525-625nm

Visit www.strem.com for new product information and searchable catalog.

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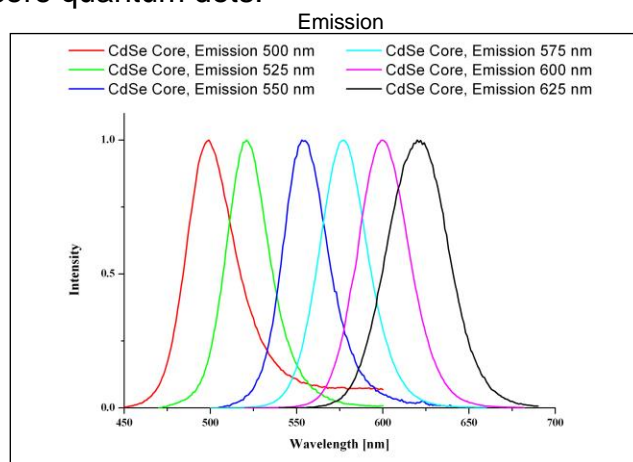
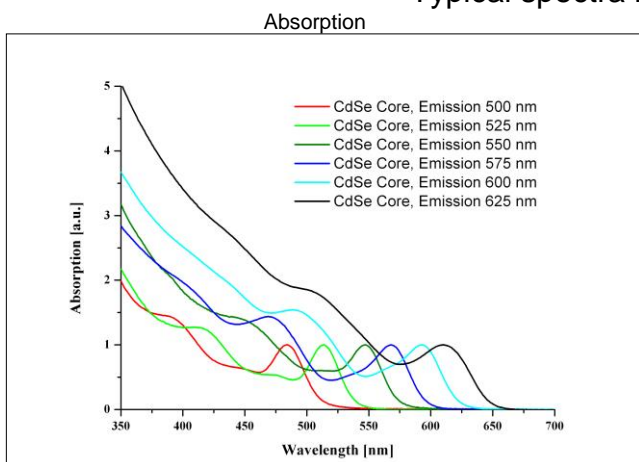
Peak Emission	Particle Size (diameter)	Strem Catalog No. (in hexane)+	Quantum Yield
CdSe core			
525nm	2.8nm	48-1011	low
550nm	3.5nm	48-1017	low
575nm	3.9nm	48-1023	low
600nm	4.7nm	48-1030	low
625nm	5.3nm	48-1035	low
Kit: 525-625nm		96-0800	low

Kit contains 5ml of each of the above 5 products. Ligand capping agent oleylamine. Stable in dispersions 6 months.

† Available at nanoparticle concentration of 50µmol per liter.

Store cold in dark under inert atmosphere. Do not freeze.

Typical spectra for CdSe core quantum dots.



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