



## Technical Specifications

Updated 12/13/17

### CdS Core Quantum Dots

<b>Composition</b>	Cadmium Sulfide Quantum Dots
<b>Stabilizing ligand</b>	Oleic acid ligand
<b>Concentration</b>	Order amount dependent
<b>Organic Impurities</b>	<1% (not including ligands)
<b>Solvent*</b>	Toluene
<b>Volume</b>	Order amount dependent
<b>Lifetime</b>	One year if stored properly. Dark at 2-8°C
<b>PL FWHM (nm)</b>	16-24
<b>UV-Vis FWHM (nm)</b>	26-34
<b>Quantum Yield</b>	>20%

\*Other solvents are available upon request.

<b>Catalogue #</b>	<b>UV peak (nm)</b>	<b>Emission Peak (nm)</b>	<b>Size (nm)</b>	<b>nmol/mg</b>
CS-360	360±10	365-390	2.3	20.0
CS-380	380±10	385-410	2.8	15.0
CS-400	400±10	405-430	3.4	10.0
CS-420	420±10	425-450	4.1	6.0
CS-440	440±10	445-470	4.9	4.5
CS-460	460±10	465-490	5.7	3.0

### NNCrystal US Corporation

534 W Research Center Blvd., Ste 254, Fayetteville, AR 72701

Phone: 479.595.0662; Fax: 479.595.0570; E-mail: [contact@nn-labs.com](mailto:contact@nn-labs.com)