

Technical Specifications

High efficiency CdSe/ZnS Quantum Dots in Water

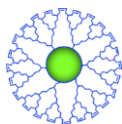
Composition	Cadmium Selenide / Zinc Sulfide quantum dots
Stabilizing ligand*	Carboxylic Acid Ligand
Concentration	Order amount dependent
Organic Impurities	<1% (not including ligands)
Solvent	Water
Volume	Order amount dependent
Lifetime	One year if stored properly. Dark at 2-8°C
PL FWHM (nm)	20-30
Quantum Yield	>50%

* Other terminated group such as NH₂, PEG are available upon request.

Catalogue #	UV peak (nm)	Emission Peak (nm)	FWHM (nm)	Molecular Weight (g/mol)	nmol/mg
HECZW450	440±10	450±10	20-22	9.50E05	1.05
HECZW470	460±10	470±10	20-24	1.20E06	0.83
HECZW500	490±10	500±10	20-28	1.20E06	0.83
HECZW520	510±10	520±10	21-28	1.35E06	0.74
HECZW540	530±10	540±10	21-28	1.50E06	0.67
HECZW560	550±10	560±10	23-28	1.20E06	0.83
HECZW580	570±10	580±10	23-28	1.35E06	0.74
HECZW600	590±10	600±10	23-28	1.35E06	0.74
HECZW620	610±10	620±10	23-28	1.50E06	0.67
HECZW650	640±10	650±10	25-30	1.65E06	0.61

NNCrystal US Corporation

534 W Research Center Blvd., Ste 260, Fayetteville, AR 72701
Phone: 479.595.0662; Fax: 479.595.0570; E-mail: contact@nn-labs.com



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Catalogue #	Core diameter (nm)	Shell Thickness (nm) ***	Total Diameter (nm)
HECZW450	2-2.5	5-6	7-8
HECZW470	2-2.5	6-7	8-9
HECZW500	2.5-3	5-6	8-9
HECZW520	2.5-3	6-7	9-10
HECZW540	2.5-3	7-8	10-11
HECZW560	3-3.5	5-6	8-9
HECZW580	3-3.5	6-7	9-10
HECZW600	3.5-4	5-6	9-10
HECZW620	3.5-4	6-7	10-11
HECZW650	4-4.5	6-7	11-12

***Thickness of shell is expressed as total diameter added to core.