

## Technical Specifications

Updated 4/4/2022

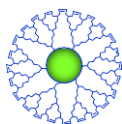
### CdSe/ZnS Core-Shell Quantum Dots in Water

<b>Composition</b>	Cadmium Selenide / Zinc Sulfide quantum dots
<b>Stabilizing ligand</b>	Carboxylic Acid Ligand
<b>Concentration</b>	Order amount dependent
<b>Organic Impurities</b>	<1% (not including ligands)
<b>Solvent</b>	Water
<b>Volume</b>	Order amount dependent
<b>Lifetime</b>	One year if stored properly. Dark at 2-8°C
<b>PL FWHM (nm)</b>	30-38
<b>UV-Vis FWHM (nm)</b>	< 20
<b>Quantum Yield</b>	≥ 40%

<b>Catalogue #</b>	<b>Emission color</b>	<b>Emission Peak (nm)</b>	<b>Molecular weight</b>	<b>Mole (nmol/mg)</b>
CZW-G	Green	530-550	8.50E+05	2.0
CZW-Y	Yellow	570-585	9.60E+05	1.0
CZW-O	Orange	595-610	1.21E+06	1.0
CZW-R	Red	620-635	1.35E+06	1.0
CZW-D	Dark Red	640-660	1.45E+06	1.0

#### NNCrystal US Corporation

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Catalogue #	Core Diameter (nm)	Shell Thickness (nm)	Total diameter (nm)
CZW-G	3	3.1	6.1
CZW-Y	3.3	3.8	7.2
CZW-O	4.2	4.4	8.6
CZW-R	4.5	4.5	9
CZW-D	4.8+	4.7+	9.5+

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