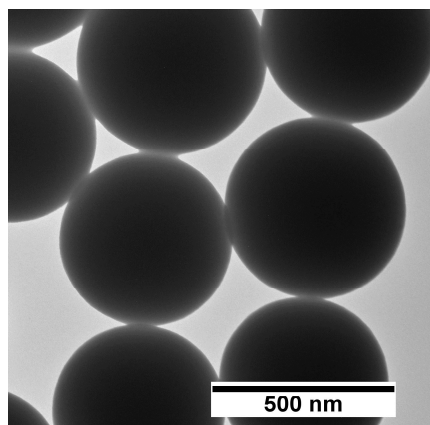
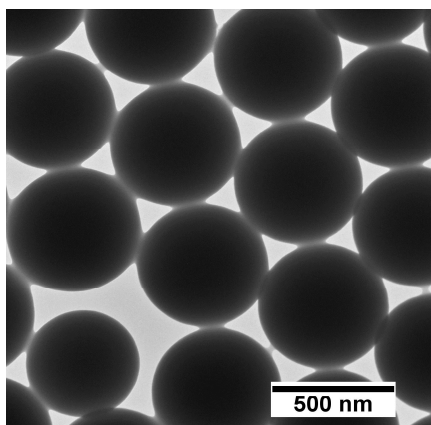
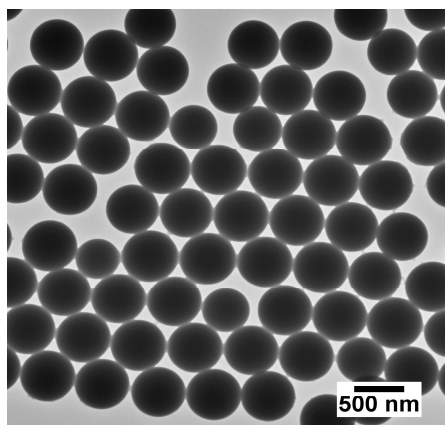


## 500 nm Silica Nanospheres, NanoXact™

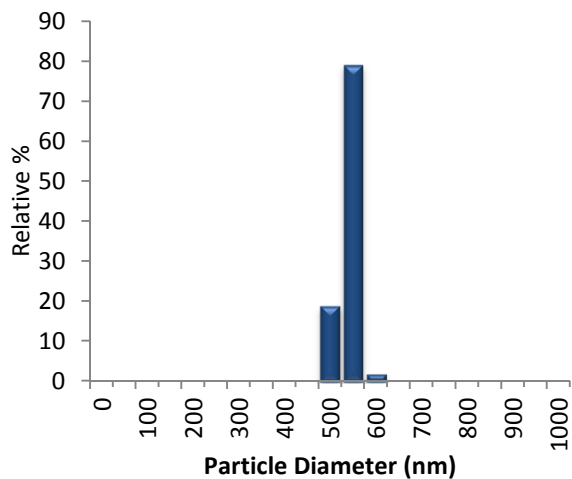
Product Number: SISN500

Lot Number: JRC0558

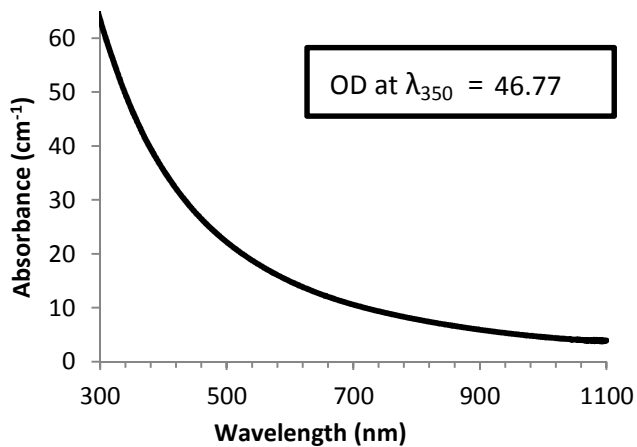
<b>Diameter ± Std.Dev (TEM):</b>	518 ± 20 nm	<b>Hydrodynamic Diameter:</b>	597 nm
<b>Coefficient of Variation:</b>	3.8 %	<b>Zeta Potential:</b>	-69 mV
<b>Surface Area (Calc'd):</b>	5.2 m <sup>2</sup> /g	<b>pH of Solution:</b>	9.5
<b>Mass Concentration (SiO<sub>2</sub>):</b>	10.7 mg/mL	<b>Particle Surface:</b>	Silanol
<b>Particle Concentration (Calc'd):</b>	6.7E+10 particles/mL	<b>Solvent:</b>	Milli-Q Water



### Size Distribution



### Optical Properties



### Characterization Instrumentation

<b>Diameter and Size Statistics:</b>	JEOL 1010 Transmission Electron Microscope
<b>Mass Concentration:</b>	Gravimetric Analysis- AND HM-202
<b>Spectral Properties:</b>	Agilent 8453 UV-Visible Spectrometer
<b>Hydrodynamic Diameter/Zeta Potential:</b>	Malvern Zetasizer Nano ZS
<b>pH:</b>	Horiba - Laqua Twin pH Meter

Shake vigorously before use. Bath sonicate if needed. Storage: 25°C. DO NOT FREEZE.