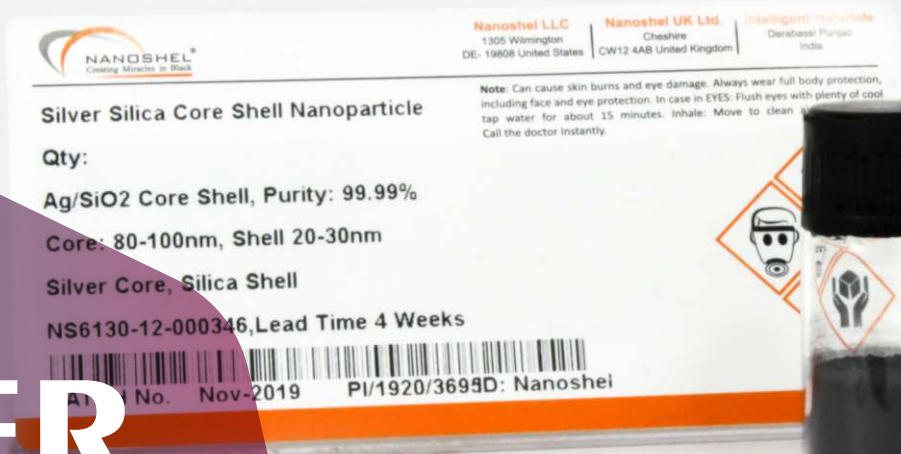


# SILVER Silicon Oxide CORE SHELL

**99%**  
(Purity)



Core-shell type nanoparticles are a type of biphasic materials which have an inner core structure and an outer shell made of different components. Silver-silica core-shell nanoparticles have received tremendous interests in various applications compared to the bare silver nanoparticles due to several important features such as exhibit higher surface area, the existence of a synergistic effect between the core and the shell, stabilize silver nanoparticles against aggregation, and easily control their properties by the changing shell structure and shell geometry. The core-shell Nanostructure varies with different sizes and different shapes of core and shell thickness with different surface morphology.

Stock no:  
**NS6130-12-000346**

## CHEMICAL IDENTIFIERS

Purity	:	99 %
Chemical name	:	Ag/SiO <sub>2</sub>
Shape	:	Spherical
Form	:	Powder

## PROPERTIES

- ✓ Large Surface Area
- ✓ High thermal stability
- ✓ Chemical tailor ability
- ✓ Surface enhanced Raman scattering
- ✓ Plasmon resonance

## Applications

- ✓ Photovoltaic cell
- ✓ Cell labeling
- ✓ Optical sensor
- ✓ Catalysis technology
- ✓ Biological imaging
- ✓ Antibacterial textiles
- ✓ Information storage



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