

# GOLD 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. These particles have been of interest as they can exhibit unique properties arising from the combination of core and shell material, geometry, and design. The core-shell nanostructures have their potential applications in various fields like catalysts, industrial and biomedical applications, and so forth. The core-shell Nanostructure varies with different sizes and different shapes of core and shell thickness with different surface morphology. Noble metal nanoparticles embedded in dielectric matrix exhibit extraordinary optical resonances in the visible region

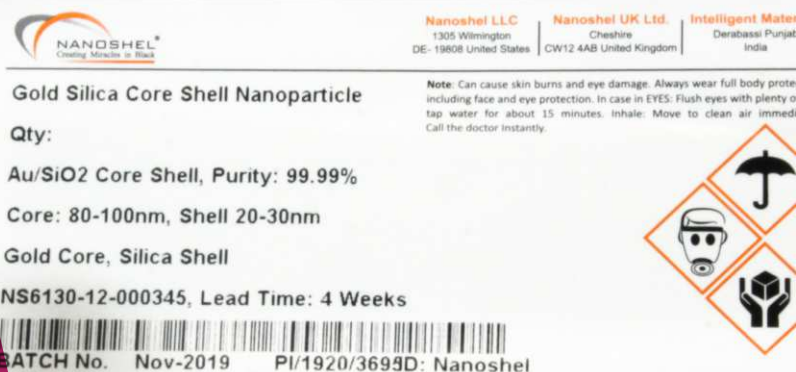
## PROPERTIES

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



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Stock no:  
**NS6130-12-000345**

## CHEMICAL IDENTIFIERS

Purity	:	99 %
Chemical name	:	Au/SiO <sub>2</sub>
Shape	:	Spherical
Form	:	Powder
Core	:	Gold
Shell	:	Silica

## Applications

- ✓ Controlled drug delivery
- ✓ For Bioimaging and cell labeling
- ✓ Biosensor
- ✓ In tissue engineering
- ✓ optical filters
- ✓ Bar coding
- ✓ Biological imaging
- ✓ Antibacterial textiles

ISO 9001:2015  
CERTIFIED COMPANY



20ZICE4589C



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20ZICE4588M

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