

# SILICON OXIDE Gold CORE SHELL

**99%**  
(Purity)

Core-shell nanoparticles have many potential and exciting applications in the biomedical field. nanoparticles are a class of nanostructure materials that have recently received increased attention owing to their interesting properties and broad range of applications in catalysis, biology, materials chemistry and sensors. Covering a thin surface layer on fine particles can alter their usefulness and properties, such as stability, dispersal ability and catalytic and optical properties. Silicon Oxide/Gold core-Shell nanoparticles have received tremendous interests in various applications compared to the bare Silicon oxide nanoparticles due to several important features such as exhibit higher surface area, the existence of a synergistic effect between the core and the shell, Major applications are in bioimaging, drug delivery, gene delivery, and sensors. The core-shell Nanostructure varies with different sizes and different shapes of core and shell thickness with different surface morphology.

## PROPERTIES

- ✓ Large Surface Area
- ✓ High thermal stability
- ✓ Chemical tailor ability

Stock no:  
**NS6130-12-000557**

## CHEMICAL IDENTIFIERS

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

## Applications

- ✓ biosensors
- ✓ Cell labeling
- ✓ tissue engineering
- ✓ Theranostics
- ✓ Catalysis technology
- ✓ Biological imaging



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CERTIFIED COMPANY



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