

# IRON OXIDE Silica CORE SHELL

**99.9%**  
(Purity)

Fe<sub>3</sub>O<sub>4</sub> SiO<sub>2</sub> Core Shell nanoparticles have received tremendous interests in various applications compared to the bare Fe<sub>3</sub>O<sub>4</sub> 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. Core-shell 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.

## PROPERTIES

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

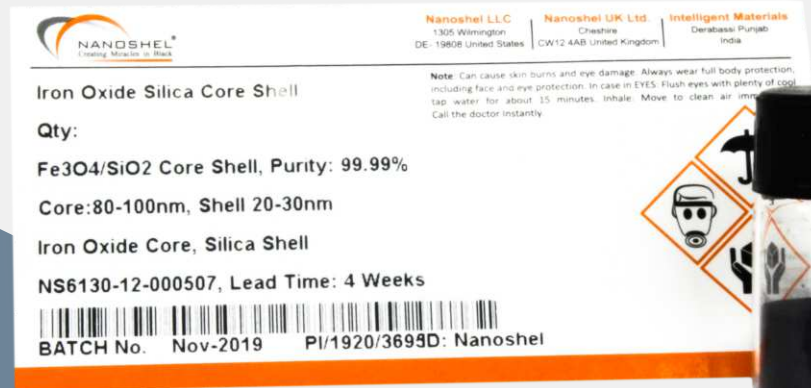
Stock no:  
**NS6130-12-000507**

## CHEMICAL IDENTIFIERS

Purity	:	99 %
Chemical name	:	(Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> )
Shape	:	Spherical
Form	:	Powder
Core	:	Iron-Oxide
Shell	:	Silica

## Applications

- ✓ Cell labeling
- ✓ Biosensors
- ✓ Tissue engineering
- ✓ Theranostics
- ✓ Biological imaging



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ISO 9001:2015  
CERTIFIED COMPANY



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