

# COBALT Silica 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. Cobalt silica core-shell nanoparticles have received tremendous interests in various applications compared to the bare cobalt 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 cobalt 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.

## PROPERTIES

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

Stock no:  
**NS6130-12-000505**

## CHEMICAL IDENTIFIERS

Purity	:	99 %
Chemical name	:	Co/SiO <sub>2</sub> Core-Shell
Shape	:	Spherical
Form	:	Powder
Core	:	Cobalt
Shell	:	Silica

## Applications

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



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