



Core-shell type nanoparticles are a type of biphasic materials which have an inner core structure and an outer shell made of different components. Nickel Silicon Oxide Core Shell nanoparticles are a class of materials which have properties intermediate between those of small, individual molecules and those of bulk, crystalline semiconductors. It have received tremendous interests in various applications compared to the bare Nickel 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 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.

CORE SHELL

99%

Properties

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









Stock no:

NS6130-12-000503

Chemical Identifiers

99 % Chemical name (Ni/SiO2) Shape Spherical Form Powder Core Nickel Shell Silica

Applications

- Catalysis technology
- Improvement of semiconductor efficiency
- Floating gate memory
- Optoelectronics
- Optical sensor
- Photovoltaic cell
- Information storage

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