

SILVER Silica CORE Shell

99.9%
(Purity)



Stock no:
NS6130-12-000502

CHEMICAL IDENTIFIERS

Purity	:	99.9%
Chemical name	:	Ag/SiO ₂
APS	:	80-100nm
CAS	:	7440-22-4

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. Ag NPs have attracted significant research interest due to their catalysis, antibacterial, optical and electrical properties. Particularly, as catalysts, they show strong activity and selectivity in a number of reactions. Unfortunately, Ag NPs tend to easily form aggregates/ clusters due to the huge surface energy, thus substantially decreasing their catalytic activity. To improve the catalytic effectiveness of Ag NPs, various types of shells have been developed to construct core-shell morphology to encapsulate Ag NPs as the cores. The integration can increase stability and recyclability of the Ag NPs.

Applications

- ✓ Antibacterial textiles
- ✓ Biomedical applications
- ✓ Controlled drug delivery and specific targeting
- ✓ Sensor, replacement, support and tissue.



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20ZICE4589C



19ZAZGO1274G



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