

COPPER Copper oxide CORE SHELL

99.9%
(Purity)



Stock no:
NS6130-12-000542

CHEMICAL IDENTIFIERS

Purity	:	99.9%
Chemical name	:	Cu/Cu ₂ O
APS	:	80-100nm
Molecular Weight	:	-
Density	:	-
Melting Point	:	-

Metal core-shell nanoparticles (NPs) as a semiconductor have attracted many interests due to their potential application in many areas and also interesting physics involved in the process. Copper oxide (CuO and Cu₂O) compounds are interesting materials because of their application as catalysts, antibacterials, interconnects in electronic, corrosion of alloys, etc. The surfaces of copper oxide can react with gases or solutions and can behave as a catalyst or a gas sensor. The identification of the actual oxidation state of copper in the core shell system is critical to understand their chemical behaviour. The Cu₂O nano-materials are very potential as p-type semiconductor with unique optical and magnetic properties, easy accessibility and low toxicity

Applications

- ✓ Antimicrobial Agents
- ✓ As burning rate catalyst in rocket propellant. It can greatly improve the homogeneous propellant burning rate, lower pressure index, and also perform better as a catalyst for the AP composite propellant. Can be applied to the catalyst, superconducting materials, thermoelectric materials, sensing materials, glass, ceramics and other fields.
- ✓ As ceramic resistors, magnetic storage media, gas sensors, near-infrared filters, photoconductive and photothermal applications.
- ✓ As semiconductors, solar energy transformation, and high-tech superconductors.



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