



COPPER

OXIDE NANOPARTICLES

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C O P P E R

OXIDE NANOPARTICLES

Make your innovations better with NANOSHEL

Nanomaterials are being applied across a wide range of high-tech industries and advanced technologies due to their excellent optical, magnetic, catalytic and electronic properties. Copper oxide nanoparticles are very stable, and their activity is longer when compared with organic anti-microbial agents. CuO nanoparticles have great biological properties including effective antimicrobial action against a wide range of pathogens and also drug

resistant bacteria. These properties have led to the development of various approaches with direct applications to the biomedical field, such as tailored surfaces with antimicrobial effect, wound dressings and modified textiles. Copper oxide nanoparticles can be applied to the catalyst, superconducting materials, and thermoelectric materials, sensing materials, glass, ceramics and other fields.



Quick FACTS

Product	: Copper Oxide Nanopowder
Stock No	: NS6130-03-310, NS6130-03-312
CAS	: 1317-38-0
Color	: Black
Form	: Powder

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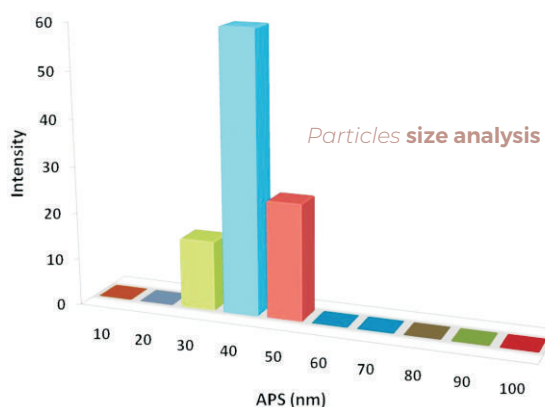
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APPLICATIONS

- ✓ Catalyst in rocket propellant
- ✓ As ceramic resistors
- ✓ Magnetic storage media
- ✓ Gas sensors
- ✓ Near-infrared filters
- ✓ Photoconductive and photo thermal applications
- ✓ As semiconductors, solar energy transformation, and high-tech superconductors
- ✓ Ceramic resistors,
- ✓ Magnetic storage media

- ✓ Gas sensors
- ✓ Near-infrared filters
- ✓ Photoconductive
- ✓ Photo thermal applications



Additional Powder Characteristics

Stock No.	Purity	APS
NS6130-03-310	99.9%	25-55nm
NS6130-03-311	99.9%	<80nm
NS6130-03-312	99.9%	40nm

Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point	Boiling Point
CuO	79.54 g/mol	6.31 g/cm ³	1201 °C	2000°C





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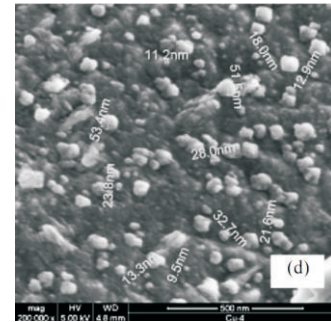
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Chemical Composition

Product	Weight Percent (nominal)	
	CuO	Other Metal
Copper Oxide Nanoparticles	99.9 %	1000 ppm

Properties

- ✓ Chemical Symbol: CuO
- ✓ CAS No.: 1317-38-0
- ✓ Group: Copper 11Oxygen 16
- ✓ Electronic Configuration: Copper [Ar] 3d10 4s1/Oxygen [He] 2s2 2p4



Ordering Information and Stock Availability

- ✓ Product: Copper Oxide Nanoparticles
- ✓ Stock Availability: Available
- ✓ Distribution: Global
- ✓ Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

Handling Recommendations

- ✓ Store in the original container in a dry location.
- ✓ Tumble contents prior to use to prevent segregation.
- ✓ Open containers should be stored in a drying oven to prevent moisture pickup.

Safety Recommendations

Download MSDS/SDS NS6130-03-310, 11, 12 SDS are available from the Nanoshel Website at <https://www.nanoshel.com/sections/oxide-nanopowder>

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