

COPPER OXIDE NANOPOWDER







Purity
99.9%

CuO



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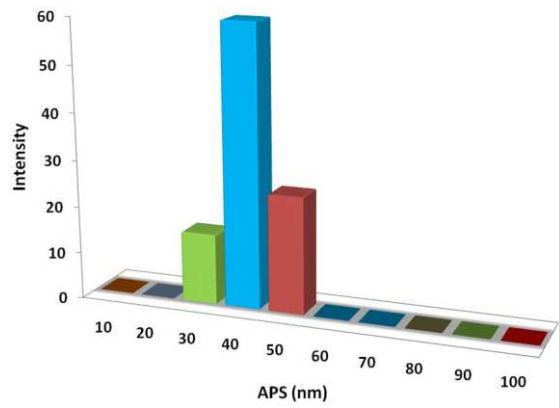
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NS6130-03-310

NEXT 

COPPER OXIDE NANOPOWDER

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.



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
CuO	79.54 g/mol	6.31 g/cm ³	1201 °C

CHEMICAL COMPOSITION

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

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

QuickFACTS

Product	:	Copper Oxide Nanopowder
Stock No	:	NS6130-03-310 to NS6130-03-312
CAS	:	1317-38-0
Color	:	Black
Form	:	Powder
Symbol	:	CuO
Group	:	Copper 11/Oxygen 16

Electronic Configuration:

Copper [Ar] 3d10 4s1/Oxygen [He] 2s2 2p4



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

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