

COPPER Zinc Oxide NANOPOWDER

99.9%

(Purity)



Cu-doped zinc oxide nanoparticles have gained great interest for developing a wide range of advanced applications including field effect transistors field emission arrays, ultraviolet lasers, light emitting diode], sensors, biosensors catalyst, energy storage and solar cell . The advanced functional properties of nanostructure materials are closely related to several factors such as high surface mass ratio, selective control surface terminal, different local structure from bulk, magnetic property and also electronic structure. For example, in Cu-doped zinc oxide, its magnetic property and band gap can be controlled by either changing its local structure or oxygen and/or Zn vacancies concentration by Cu1+ and/or Cu2+ substitution interstitial of ZnO.

Applications

- ✓ As optical coatings,
- ✓ Light-emitting diodes,
- ✓ Laser diodes and catalysts
- ✓ Field effect transistors
- ✓ Field emission arrays,
- ✓ Ultraviolet lasers,
- ✓ Light emitting diode
- ✓ Sensors, biosensors
- ✓ Catalyst
- ✓ Energy storage and solar cell

Stock no:

NS6130-12-001664

CHEMICAL IDENTIFIERS

Purity	:	99.9%
Chemical name	:	CuZnO
APS	:	<50nm



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ISO 9001:2015
CERTIFIED COMPANY



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

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