# **ARMINANO**



## **Cuprous Oxide Nanoparticles CONP101**

### **Description:**

Cu2O nanoparticles is an important metal-oxide p-type semiconductor with a direct small band gap of 2.17 eV, which makes it a promising material for the conversion of solar energy into electrical or chemical energy. In addition to this, it is used in applications such as: photo catalysis, Lithium ion batteries, optoelectronic and gas sensors. Cuprous oxide is commonly used as a pigment, a fungicide, and an antifouling agent for marine paints.

Characterization	
CAS	1317-39-1
Stock No.	CONP101
Molecular formula	Cu2O
Molecular weight (g/mol)	143.09
Form	Powder
Color	Orange
Morphology	Nearly spherical
Crystal structure	SC
Size range(>95%, nm)	50-100
Total impurity (%)	N/A
Solubility	Insoluble

**Note:** product specifications are subject to amendment and may change over time.



Image of cuprous oxide nanopowder (CONP101)

Safety:

Avoid breathing dust.

Always use protective gloves and safety glasses.

Wash with soap and water after exposure.

Refer to MSDS prior to handling this material.



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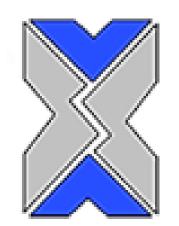
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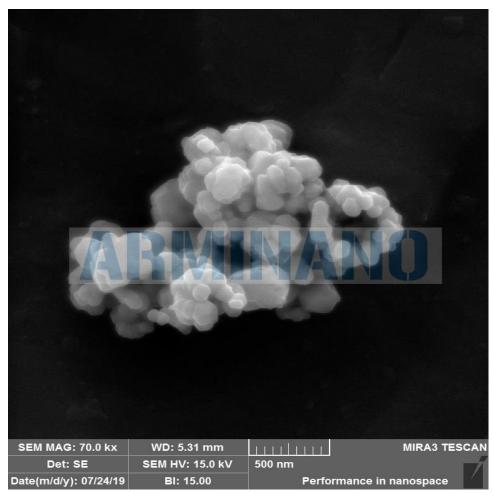


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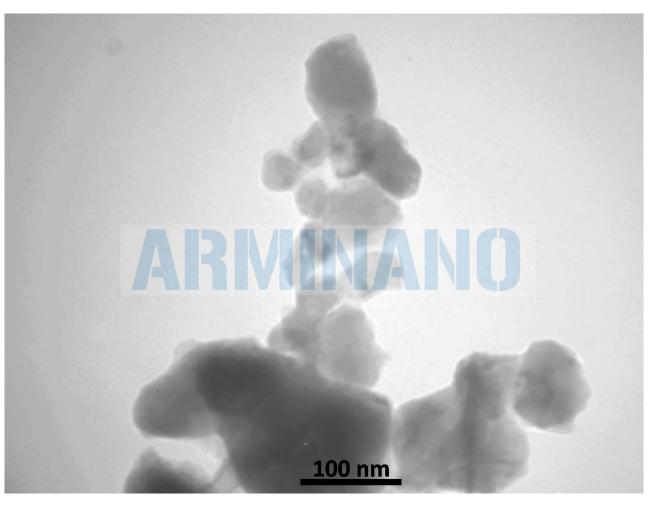




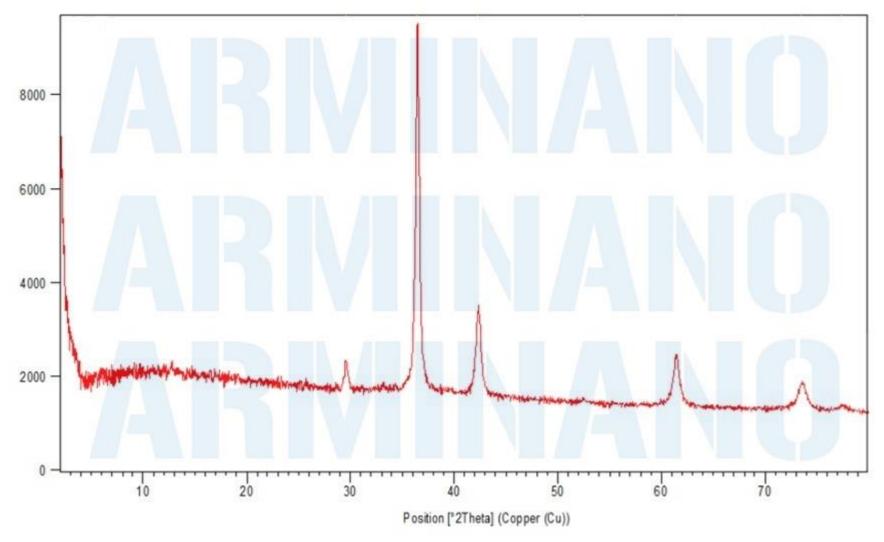
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TEM image of CONP101



XRD pattern of CONP101

### **Storage:**

Keep it in cool dry place. Avoid direct sunlight. Do not freeze. To disperse powder use sonication.

#### **Shelf life:**

When stored as specified the product is stable for at least 6 months.

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