

Global Nano Copper Oxide Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nano Copper Oxide Powder market size is expected to reach \$ 163 million by 2032, rising at a market growth of 10.9% CAGR during the forecast period (2026-2032).

In 2025, global sales of nano-copper oxide powder reached 3,120 tons, with an average selling price of US\$24,500 per ton. Nano-copper oxide powder is a functional powder with a particle size typically ranging from 10 to 100 nanometers. It possesses excellent electrical conductivity, catalytic activity, light absorption performance, and antimicrobial properties, and is widely used in electronic conductive pastes, transparent conductive films, photocatalytic materials, antibacterial coatings, and energy devices. The global total production capacity is approximately 4,000 tons per year, with an overall gross profit margin of approximately 47%. Upstream raw materials mainly consist of high-purity copper, oxidants, dispersants, and additives for nano-powder preparation. High-purity copper and energy consumption account for a significant portion of its material consumption. Downstream suppliers primarily include electronic material manufacturers, photovoltaic and optoelectronic device companies, functional coatings and textile processing plants, and energy storage material developers. With the rapid expansion of the smart electronic products, high-performance conductive films and functional coatings markets, the demand for nano copper oxide powder in the field of high value-added materials continues to grow, driving the development of products towards higher dispersibility, higher purity and more precise particle size control. The future prospects are concentrated in the development and application of flexible electronics, electromagnetic shielding materials, new energy catalysis and high-performance antibacterial materials. Business opportunities mainly come from the rapid innovation needs in the fields of 5G communication, wearable devices, smart terminals and green functional coatings.

The market for nano-copper oxide powder is expanding significantly, benefiting from the demand for high-performance nanomaterials driven by multiple high-growth sectors such as electronics, energy, optoelectronics, and functional materials. As a nanopowder possessing excellent electrical conductivity, light absorption, catalytic activity, and antimicrobial properties, nano-copper oxide has broad application value in conductive pastes, transparent conductive films, photocatalysts, antibacterial coatings, and energy storage materials. Especially in the fields of 5G, flexible electronics, smart terminals, and wearable devices, the demand for highly conductive, low-temperature processing nanopowders continues to increase, providing stable growth momentum for nano-copper oxide powder. Meanwhile, the promotion of environmental functional coatings and antibacterial materials in public facilities, medical devices, and textiles markets is also expanding the application boundaries of this material.

Market competition is shifting from traditional large-scale production to technological upgrades focusing on high purity, controllable particle size, and good dispersibility. Suppliers are enhancing added value by improving preparation processes, increasing product consistency, and developing customized solutions.

In the future, with the continued development of niche markets such as new energy vehicles, photovoltaics, and green functional coatings, the demand scenarios for nano copper oxide powder will be further enriched, and its penetration rate in high-end material systems is expected to continue to increase, bringing long-term growth potential to the industry.

This report studies the global Nano Copper Oxide Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nano Copper Oxide Powder and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Nano Copper Oxide Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nano Copper Oxide Powder total production and demand, 2021-2032, (Tons)
Global Nano Copper Oxide Powder total production value, 2021-2032, (USD Million)
Global Nano Copper Oxide Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Nano Copper Oxide Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Nano Copper Oxide Powder domestic production, consumption, key domestic manufacturers and share

Global Nano Copper Oxide Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Nano Copper Oxide Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Nano Copper Oxide Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nano Copper Oxide Powder market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Epoch Materia, American Elements, SAT NANO, Nanorh, Yosoar, FUNCMATER, Xinglu Chemical, Techinstro, Hongwu International Group Ltd, Ultrananotech Private Limited, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Nano Copper Oxide Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Nano Copper Oxide Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nano Copper Oxide Powder Market, Segmentation by Type:

Purity: 99.9%

Global Nano Copper Oxide Powder Market, Segmentation by Specifications:

Specifications: 20-50 nm

Specifications: 100-200 nm

Global Nano Copper Oxide Powder Market, Segmentation by Preparation Process:

Gas Phase Method

Wet Chemical Method

Global Nano Copper Oxide Powder Market, Segmentation by Application:

Catalysis

Energy

Environmental Protection

Medical

Others

Companies Profiled:

Epoch Materia

American Elements

SAT NANO

Nanorh

Yosoar

FUNCMATER

Xinglu Chemical

Techinstro

Hongwu International Group Ltd

Ultrananotech Private Limited

FUS NANO

Zhuoer

Stanford Advanced Materials

CHAOWEI

HONGWU

Key Questions Answered:

1. How big is the global Nano Copper Oxide Powder market?
2. What is the demand of the global Nano Copper Oxide Powder market?
3. What is the year over year growth of the global Nano Copper Oxide Powder market?
4. What is the production and production value of the global Nano Copper Oxide Powder market?
5. Who are the key producers in the global Nano Copper Oxide Powder market?
6. What are the growth factors driving the market demand?

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