

Nano Copper Oxide Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global nano copper oxide market size reached US\$ 152.8 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 511.5 Million by 2028, exhibiting a growth rate (CAGR) of 21.4% during 2023-2028.

Nano copper oxide (CuO) nanoparticles are synthesized through an aqueous precipitation procedure. It involves the use of various precursors, including copper nitrate (Cu(NO₃)₂) and copper chloride (CuCl₂) and sodium hydroxide (NaOH) as stabilizing agents. It is cost-effective, stable, and comprises superconductivity, photovoltaic, antimicrobial, and other chemical and physical properties that provide better strength, ductility, and high electrical conductivity. Based on these properties, nano copper oxide finds extensive applications in semiconductor devices, microelectronics, batteries, gas, textiles, agriculture, and biomedical tools. At present, it is commercially available in powdered and dispersed forms.

Nano Copper Oxide Market Trends:

The rapid expansion in the electronics sector has supplemented the widespread adoption of nano copper oxide in various consumer electronic products, including laptops, smartphones, and desktops, to formulate batteries and semiconductor devices. These metal nanoparticles ensure proper electricity flow and enhance overall gadget performance, which represents a prime factor driving the market growth. In line with this, copper oxide nanoparticles exhibit antimicrobial properties, due to which they find extensive usage in several biomedical applications in the healthcare sector for the

treatment of hospital-acquired disease and microbial pathogens. Moreover, the introduction of conductive copper oxide nanoparticle-based ink and its uptake as a critical component in additive manufacturing, three-dimensional (3D) printing systems, and thin film deposition applications is propelling the market growth. Additionally, significant technological advancements to optimize nano copper oxide production procedures are contributing to the market growth. Other factors, such as the extensive product demand across various industrial verticals owing to its numerous beneficial properties and continuous research and development (R&D) activities to identify its diverse usage, are creating a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global nano copper oxide market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type and end user.

Breakup by Type:

Powdered

Dispersed

Breakup by End User:

Electricals and Electronics

Paints and Coatings

Catalysts

Energy Storage

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being American Elements, Hongwu International Group Ltd, Inframat Corporation, Nanoshel, Nanostructured & Amorphous Materials Inc., PlasmaChem GmbH, SkySpring Nanomaterials Inc. and US Research Nanomaterials Inc.

Key Questions Answered in This Report

1. What was the size of the global nano copper oxide market in 2022?
2. What is the expected growth rate of the global nano copper oxide market during 2023-2028?
3. What are the key factors driving the global nano copper oxide market?
4. What has been the impact of COVID-19 on the global nano copper oxide market?
5. What is the breakup of the global nano copper oxide market based on the end user?
6. What are the key regions in the global nano copper oxide market?
7. Who are the key players/companies in the global nano copper oxide market?

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