Nano Zinc Oxide Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032

Market Report | 2024-08-26 | 200 pages | Global Market Insights

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Report description:

Global nano zinc oxide market reached a valuation of USD 352.1 million in 2023 and is projected to grow at a CAGR of 11% from 2024 to 2032. Nano zinc oxide, typically in the form of dispersions and powders, consists of inorganic nanoparticles with diameters usually under 100 nanometers. These nanoparticles boast a myriad of advantageous properties, such as antibacterial, antifungal, anticorrosive, catalytic, and UV filtering abilities, rendering them indispensable across diverse industrial and medical sectors.

Globally, zinc oxide production and consumption are significant. For context, the U.S. Geological Survey (USGS) reported global zinc mine production at around 13 million metric tons in 2022, with a considerable fraction directed towards zinc oxide production, including its nano-scale forms. Moreover, the European Chemicals Agency (ECHA) underscores the surging adoption of nano zinc oxide within the European Union, primarily due to its UV protection and antimicrobial benefits in cosmetics and coatings.

The overall industry is divided into type, application, and region.

The coated nano ZnO segment is anticipated to achieve a valuation of USD 245.1 million in 2023, with a consistent 11% CAGR projected until 2032. This growth trajectory is largely attributed to the surging demand for coated nano zinc oxide across various sectors, especially in personal care. Its preference in this domain stems from enhanced UV protection and diminished photocatalytic activity for ensuring safety and stability in formulations. Furthermore, heightened skin health awareness and a shift towards transparent, non-whitening sunscreens amplify the coated nano ZnO demand.

The personal care & cosmetics segment is poised to reach USD 199.5 million in 2023, with an impressive 12% CAGR forecasted from 2024 to 2032. This surge is predominantly fueled by rising consumer demand for sunscreens and skincare products that deliver effective UV protection without visible residue. Nano zinc oxide's transparency and non-whitening attributes play a pivotal role. The segment's growth is further buoyed by innovations in product formulations and a consumer shift towards natural, mineral-based ingredients, emphasizing safer and eco-friendly skincare choices.

Asia Pacific nano zinc oxide market is on an upward trajectory, with a valuation of USD 131.5 million in 2023 and a projected CAGR of 11.2% from 2024 to 2032. This momentum is largely driven by the region's booming personal care and cosmetics sector, spurred by heightened skincare and sun protection awareness, notably in nations like China, Japan, and South Korea. The demand

for advanced materials in electronics and coatings, leveraging nano zinc oxide's UV protection and antimicrobial traits, further fuels the market. With a robust manufacturing foundation and escalating R&D investments, the Asia Pacific is solidifying its stance as a pivotal market for this multifaceted nanomaterial.

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