

BIOX NanoJast

Nano Zinc Oxide Powder

Overview

Biox NanoJast is Nano Zinc Oxide recognized for its antifungal properties. shown effectiveness against various fungal species, particularly valuable in sectors like healthcare, agriculture, and material preservation.

In healthcare, nano zinc oxide's antifungal characteristics can potentially treat skin infections caused by fungi. Its ability to inhibit fungal growth makes it a promising ingredient for incorporation into topical creams and ointments designed to combat fungal skin infections.

In agriculture, the antifungal nature of nano zinc oxide can be harnessed to protect crops from fungal diseases. The antifungal properties of nano zinc oxide are beneficial in Industrial science, particularly in protecting materials from fungal degradation; when incorporated into paints, coatings, and building materials, nano zinc oxide can extend the lifespan of these materials by preventing fungal growth, thus contributing to the durability and longevity of buildings and structures.

Product Benefits to the applications

Rubber Industry: vital ingredient in the rubber manufacturing process, primarily used as a vulcanization agent. It enhances the cross-linking process in rubber, leading to improved mechanical properties such as tensile strength, tear resistance, and overall durability.

Paints and Coatings: In the paint and coating industry, nano zinc oxide is valued for its UV protection and antimicrobial properties. It provides superior protection against ultraviolet radiation, thereby preventing the degradation of paints and increasing their lifespan.

Electronics and Photonics: Due to its semiconducting and piezoelectric properties, nano zinc oxide is utilized in electronic components and devices. It's used in sensors, transducers, and varistors. Its photostable nature also makes it suitable for optoelectronic applications, like LEDs and solar cells, enhancing their efficiency and durability.

Cosmetics Industry: In sunscreen products, nano zinc oxide is preferred for its ability to provide effective sun protection without leaving a white residue on the skin.

Ceramics and Glass: Nano zinc oxide is used in ceramics and glass manufacturing to improve product quality. It helps in controlling thermal expansion, improving resistance to thermal shock, and enhancing the chemical stability of ceramic and glass products.

Catalysis: Its high surface area and chemical reactivity make nano zinc oxide a useful catalyst in various chemical reactions. It's employed in catalytic processes in the chemical industry, contributing to more efficient and environmentally friendly reactions.

Textiles: Imparts UV protection and antibacterial properties to fabrics, making them more suitable for outdoor and healthcare applications. It enhances the durability of textiles and helps in maintaining hygiene.

Specifications

Appearance:	White to pale yellow powder.
Purity:	99.5%
Molecular Weight:	81.38 g/mol
Density:	5.6 g/cc
Melting Point:	1975C

Packaging

25 Kg Bag or Plastic Pail

Other information

- Storage: Ensure storage in a cool, dry place and avoid incompatible substances.
- Fire Hazard: Although Biox NanoJast is not flammable, Use appropriate extinguishing media for surrounding materials.
- Spillages: To prevent leakage of any spills and dispose of them by local regulations.
- Disposal: Dispose of the contents/container in compliance with local, regional, national, and international rules.
- MSDS Available on request.
- Free samples available on request.
- Technical and Product support available. Call 91 97695 93030.

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