

BIOX Ag Cubic

Silver Zirconium Phosphate Powder

Overview

Biox Ag Cubic is Silver Zirconium Phosphate, a compound combining silver ions with a zirconium phosphate matrix. This material is known for its excellent antimicrobial properties, which arise from the presence of silver ions. These ions effectively inhibit the growth of various microorganisms, making the compound useful in applications where microbial resistance is crucial, such as in water purification, healthcare, and food packaging.

Silver zirconium phosphate is a compound where silver ions are embedded within a zirconium phosphate matrix. The silver ions, in their ionic state, confer potent antimicrobial properties to the compound. This molecular arrangement allows for a stable yet effective release of silver ions, which disrupt cellular processes in

The key area of Ag Cubic is water purification, where it can be integrated into filtration systems to combat waterborne pathogens, ensuring safer drinking water, particularly in areas prone to such contaminants. In the healthcare industry, this compound can be utilized in the coatings of medical devices or surfaces in hospital environments to reduce the risk of infections.

Product Benefits

High Efficacy: It is highly effective against a broad range of microorganisms, including bacteria, fungi, and viruses, due to the antimicrobial properties of silver ions and shielding of Zirconium Phosphate cubical structure.

Long-Lasting Action: The stable matrix of zirconium phosphate ensures a sustained release of silver ions, providing prolonged antimicrobial protection.

Low Toxicity: Compared to other antimicrobial agents and free silver ions, silver zirconium phosphate is relatively less toxic, making it safer for use in various applications, including healthcare and food packaging.

Versatility: Due to its stability and effectiveness, it can be used in diverse applications, from water purification systems and air filters to coatings for medical devices and food storage materials.

Economical: The Silver Zirconium Phosphate anti-microbial additive perform at a lower usage and therefore its economical

Specifications

Appearance:	White Powder
Particle size (D50):	2um
Moisture Content:	0.5 - 0.8%
Temperature Stability:	1000C
Zirconium Content:	>48%
Loss on Ignition	<1%

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 Ag Cubic 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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