

Global Antimicrobial Glass Powder Market Size Study, by Product (Copper, Silver, Zinc), by Application (Paints & Coatings, Plastics & Polymers, Fiber & Textiles), by End-use (Healthcare, Consumer Electronics, Packaging, Building & Construction), and Regional Forecasts 2022-2032

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Abstracts

The global antimicrobial glass powder market was valued at approximately USD 2.7 billion in 2023 and is projected to grow at a CAGR of 7.5% over the forecast period from 2024 to 2032. The increasing need for antimicrobial and hygienic solutions in healthcare, food packaging, and consumer electronics is driving the adoption of antimicrobial glass powder across industries. The growing awareness of hygiene and infection prevention, coupled with technological advancements in antimicrobial material science, is fostering market growth.

The demand for antimicrobial glass powder is fueled by its ability to inhibit the growth of bacteria, viruses, and fungi in healthcare environments, residential buildings, and commercial spaces. The material is increasingly being integrated into medical devices, consumer electronics, and packaging solutions, ensuring enhanced safety and hygiene. The rise in hospital-acquired infections (HAIs) has further accelerated the adoption of antimicrobial surfaces in medical facilities. In addition, stringent hygiene regulations and consumer demand for antimicrobial coatings in high-touch areas such as public transportation and airports further support the market expansion.

The COVID-19 pandemic heightened the global focus on antimicrobial solutions, leading to increased research and development in advanced materials that provide long-lasting protection against pathogens. Companies are now incorporating antimicrobial

glass powder in home appliances, smartphones, cutting boards, and textiles, thereby boosting market penetration across multiple end-use industries. The food and beverage industry is another significant driver, as antimicrobial packaging solutions help enhance product safety and extend shelf life.

From a technological perspective, antimicrobial glass powders are being developed with non-toxic, sustainable formulations that align with environmental safety standards. Silver-based antimicrobial powders dominate the market due to their superior effectiveness in inhibiting microbial growth, while zinc-based powders are gaining traction due to their cost-efficiency and ease of integration into various materials. The construction industry is also increasingly utilizing antimicrobial coatings and building materials, particularly in hospitals, schools, and office buildings, to maintain hygienic indoor environments.

Major Market Players Included in This Report:

AGC Inc.

SaintGobain

Schott AG

Corning Inc.

Owens Corning

Asahi Glass Co.

Borosil Glass Works

JIANGSU SUNCHEM

Wienerberger AG

Guardian Glass

Nippon Electric Glass

Pittsburgh Glass Works

Interglass

Vetreria Etrusca

Kibbutz Sha'ar HaGolan

The Detailed Segments and Sub-segments of the Market are Explained Below:

By Product:

Copper

Silver

Zinc

Others

By Application:

Paints & Coatings

Plastics & Polymers

Fiber & Textiles

Others

By End-use:

Healthcare

Consumer Electronics

Packaging

Building & Construction

Others

By Region:

North America

U.S.

Canada

Mexico

Europe

Germany

UK

Italy

Spain

France

Asia Pacific

China

India

Japan

South Korea

Central & South America

Brazil

Middle East & Africa

Saudi Arabia

UAE

Years Considered for the Study:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Analysis of the competitive structure of the market.

Demand-side and supply-side analysis of the market.

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