

# Global Metal Biocides Market Size Study & Forecast, by Type (Silver, Copper & Alloys, Zinc), End-use Industry (Paints & Coatings, Medical, Textile, Wood Preservation, Foods & Beverages, Pesticides) and Regional Forecasts 2025–2035

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## Abstracts

The Global Metal Biocides Market is valued approximately at USD 4.02 billion in 2024 and is anticipated to grow with a healthy CAGR of more than 4.80% over the forecast period 2025–2035. Metal biocides, owing to their potent antimicrobial properties, have long been the cornerstone of material preservation and infection control across diverse industrial sectors. Comprising active agents like silver, copper, and zinc, these compounds are integrated into products to combat microbial degradation, enhance durability, and improve hygiene standards. The surge in demand from the healthcare, textile, food packaging, and construction industries has significantly expanded the scope and application of metal biocides, enabling them to act as critical enablers of product performance and lifecycle extension.

As global public health concerns intensify and the threat of antimicrobial resistance looms large, industries are leaning into more innovative, longer-lasting, and less toxic solutions—creating a conducive environment for metal biocides to thrive. The medical sector, in particular, is witnessing rapid adoption of silver-based biocides in wound dressings, catheters, and surgical tools, driven by their broad-spectrum efficacy. Meanwhile, the wood preservation industry, once dominated by traditional treatments, is transitioning to copper-based biocides due to their superior environmental profile and ability to deter fungal and insect attacks. Simultaneously, in agriculture, the inclusion of zinc-based antimicrobials in pesticides has gained traction for improving crop resistance against microbial infections, contributing to overall food security.

Regionally, North America currently dominates the market, underpinned by stringent regulatory frameworks, strong R&D spending, and a well-established medical device manufacturing ecosystem. Europe follows closely, where innovation in sustainable biocide formulations and policies surrounding environmentally friendly preservatives support market maturity. However, the Asia Pacific region is projected to exhibit the fastest growth throughout the forecast period. Rapid urbanization, industrialization, and healthcare investments in economies like China and India are propelling demand for antimicrobial coatings, food-safe packaging, and hygienic infrastructure—all of which rely heavily on metal biocide integration. Furthermore, increasing awareness regarding product safety and consumer well-being is prompting manufacturers in this region to transition towards more sophisticated biocide technologies, bolstering overall market expansion.

Major market player included in this report are:

BASF SE

Baker Hughes Company

Croda International Plc.

Halliburton Company

Trican Well Service Ltd.

Aubin Group

Chevron Phillips Chemical Company

M&D Industries Of Louisiana, Inc.

Impact Fluid Solutions

Schlumberger Limited

LANXESS AG

Sanitized AG

Milliken & Company

SteriTouch Ltd

Clariant AG

## Global Metal Biocides Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

The detailed segments and sub-segments of the market are explained below:

By Type:

Silver

Copper & Alloys

Zinc

By End-use Industry:

Paints & Coatings

Medical

Textile

Wood Preservation

Foods & Beverages

Pesticides (Agriculture)

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

#### Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

#### Latin America

Brazil

Mexico

#### Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

## Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of 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 approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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