

Global PolyhexaMethylene Biguanide(PHMB) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PolyhexaMethylene Biguanide(PHMB) market size is expected to reach \$ 156 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Polyhexamethylene biguanide (PHMB) is a highly effective, broad-spectrum, and low-toxicity polymeric disinfectant that kills bacteria and fungi by disrupting their cell membranes. It is colorless, odorless, safe, and does not induce resistance, making it considered a new generation of green disinfectant.

The main upstream raw materials include hexamethylenediamine, 1,6-dicyanoguanidine, sodium dicyanamide, and dicyanamide, with hexamethylenediamine being a key material affecting production costs.

Global sales are expected to reach several thousand tons by 2025, with low-concentration solutions (such as 20%) priced at approximately US\$3,000 per ton.

Powdered PHMB has a market price of US\$20,000 per ton, with higher purity resulting in higher prices. Industry gross margins range from 18% to 30%.

The core advantage of PHMB lies in its non-leaching physical sterilization mechanism, which allows it to provide broad-spectrum antimicrobial activity while possessing extremely high stability and very low irritation to the skin and mucous membranes.

Compared to some traditional disinfectants, PHMB itself has certain advantages in terms of safety and environmental friendliness, aligning with the trends of consumer upgrading and green production, and has become one of the best alternatives to traditional chlorine- and aldehyde-based disinfectants. Technological advancements in application fields have also created new demands, such as in the field of biomedical materials. The water treatment sector, as an important downstream market, also provides a solid foundation for industry growth due to its stable demand for high-performance bactericides.

This report studies the global PolyhexaMethylene Biguanide(PHMB) production,

demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PolyhexaMethylene Biguanide(PHMB) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of PolyhexaMethylene Biguanide(PHMB) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PolyhexaMethylene Biguanide(PHMB) total production and demand, 2021-2032, (Kiloton)

Global PolyhexaMethylene Biguanide(PHMB) total production value, 2021-2032, (USD Million)

Global PolyhexaMethylene Biguanide(PHMB) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton), (based on production site)

Global PolyhexaMethylene Biguanide(PHMB) consumption by region & country, CAGR, 2021-2032 & (Kiloton)

U.S. VS China: PolyhexaMethylene Biguanide(PHMB) domestic production, consumption, key domestic manufacturers and share

Global PolyhexaMethylene Biguanide(PHMB) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kiloton)

Global PolyhexaMethylene Biguanide(PHMB) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

Global PolyhexaMethylene Biguanide(PHMB) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

This report profiles key players in the global PolyhexaMethylene Biguanide(PHMB) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Laboratoire PAREVA, Garonit, Arxada, Shanghai Hipoly Bio-tech, Tianwei Chemical, Shanghai Scunder Industry, Shaanxi Dasheng Pharmaceutical Tech, Anhui Yidun Technology, Keweijinhong, Runtai Chemical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PolyhexaMethylene Biguanide(PHMB) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kiloton) and average price (US\$/Ton) by

manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global PolyhexaMethylene Biguanide(PHMB) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PolyhexaMethylene Biguanide(PHMB) Market, Segmentation by Type:

Aqueous Solutions

Powders

Global PolyhexaMethylene Biguanide(PHMB) Market, Segmentation by Grade:

Medical Grade

Industrial Grade

Other

Global PolyhexaMethylene Biguanide(PHMB) Market, Segmentation by Sales Methods:

Direct Sales

Distribution

Global PolyhexaMethylene Biguanide(PHMB) Market, Segmentation by Application:

Water Treatment

Disinfectant

Food Industry

Leather Industry

Cosmetic

Other

Companies Profiled:

Laboratoire PAREVA

Garonit

Arxada

Shanghai Hipoly Bio-tech

Tianwei Chemical

Shanghai Scunder Industry

Shaanxi Dasheng Pharmaceutical Tech

Anhui Yidun Technology

Keweijinhong

Runtai Chemical

Qingdao Yiyuan Zhihai Biotechnology

Key Questions Answered:

1. How big is the global PolyhexaMethylene Biguanide(PHMB) market?
2. What is the demand of the global PolyhexaMethylene Biguanide(PHMB) market?
3. What is the year over year growth of the global PolyhexaMethylene Biguanide(PHMB) market?
4. What is the production and production value of the global PolyhexaMethylene Biguanide(PHMB) market?
5. Who are the key producers in the global PolyhexaMethylene Biguanide(PHMB) market?
6. What are the growth factors driving the market demand?

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