

Global Polyhexamethylene Guanidine Phosphate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Polyhexamethylene Guanidine Phosphate market size is expected to reach \$ 322 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Polyhexamethylene Guanidine Phosphate (PHMG-P) is a cationic polymeric guanidine salt formed by neutralizing polyhexamethylene guanidine (PHMG) with phosphoric acid, widely used as a broad-spectrum antimicrobial agent due to its strong bactericidal, fungicidal, and antiviral properties. It works by disrupting microbial cell membranes through electrostatic interaction, leading to leakage of intracellular components. In the supply chain, the upstream segment includes raw materials such as hexamethylenediamine (HMDA), guanidine compounds (e.g., guanidine hydrochloride), and phosphoric acid, along with basic petrochemical intermediates. The midstream involves polymerization of guanidine with hexamethylenediamine to form PHMG base, followed by neutralization or salt formation with phosphoric acid to produce PHMG-P, typically carried out by specialty chemical manufacturers with expertise in polymer biocides. Downstream, PHMG-P is formulated into disinfectants, water treatment chemicals, coatings, textiles, personal care additives, and industrial preservatives, and distributed through chemical suppliers to sectors such as healthcare, sanitation, agriculture, aquaculture, and industrial water systems, with regulatory oversight playing an important role due to its toxicity and environmental impact considerations. In 2025, global PHMG-P output was about 70,000 tons with 90,000 tons of capacity, average prices of USD 2,500-4,800 per ton, and gross margins around 31%.

This report studies the global Polyhexamethylene Guanidine Phosphate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Polyhexamethylene Guanidine Phosphate 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 Guanidine Phosphate that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Polyhexamethylene Guanidine Phosphate total production and demand, 2021-2032, (Tons)

Global Polyhexamethylene Guanidine Phosphate total production value, 2021-2032, (USD Million)

Global Polyhexamethylene Guanidine Phosphate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Polyhexamethylene Guanidine Phosphate consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Polyhexamethylene Guanidine Phosphate domestic production, consumption, key domestic manufacturers and share

Global Polyhexamethylene Guanidine Phosphate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Polyhexamethylene Guanidine Phosphate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Polyhexamethylene Guanidine Phosphate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Polyhexamethylene Guanidine Phosphate 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 Ningbo Inno Pharmchem (China), Suzhou Easy Chemical (China), Green Mountain Chemical (China), Guangzhou Lily New Materials (China), Hebei Guanlang Biotechnology (China), Nippon Shokubai (Japan), IRO Group (USA), Arxada (Switzerland), Lonza (Switzerland), LANXESS (Germany), 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 Guanidine Phosphate market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Guanidine Phosphate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polyhexamethylene Guanidine Phosphate Market, Segmentation by Type:

Liquid PHMG-P

Solid PHMG-P

Global Polyhexamethylene Guanidine Phosphate Market, Segmentation by Molecular Weight:

5 kg/mol

Global Polyhexamethylene Guanidine Phosphate Market, Segmentation by Application:

Healthcare

Water Treatment

Agriculture

Industrial

Others

Companies Profiled:

Ningbo Inno Pharmchem (China)

Suzhou Easy Chemical (China)

Green Mountain Chemical (China)

Guangzhou Lily New Materials (China)

Hebei Guanlang Biotechnology (China)

Nippon Shokubai (Japan)

IRO Group (USA)

Arxada (Switzerland)

Lonza (Switzerland)

LANXESS (Germany)

Key Questions Answered:

1. How big is the global Polyhexamethylene Guanidine Phosphate market?
2. What is the demand of the global Polyhexamethylene Guanidine Phosphate market?
3. What is the year over year growth of the global Polyhexamethylene Guanidine Phosphate market?
4. What is the production and production value of the global Polyhexamethylene Guanidine Phosphate market?
5. Who are the key producers in the global Polyhexamethylene Guanidine Phosphate market?
6. What are the growth factors driving the market demand?

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