

# Global Metaphosphate Glass Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Metaphosphate Glass market size is expected to reach \$ 807 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Metaphosphate glass is a class of phosphate-based glass primarily composed of long-chain polyphosphate units ( $(\text{PO})_n$ ), typically formed from high-purity phosphorus pentoxide ( $\text{P}_2\text{O}_5$ ) combined with alkali or alkaline-earth oxides such as sodium oxide ( $\text{Na}_2\text{O}$ ), potassium oxide ( $\text{K}_2\text{O}$ ), calcium oxide ( $\text{CaO}$ ), or magnesium oxide ( $\text{MgO}$ ), producing compositions like sodium metaphosphate or calcium metaphosphate glass; compared with silicate glass, it features lower melting temperatures, high thermal expansion, good rare-earth solubility, controllable chemical durability, and strong infrared transmission, making it suitable for laser host materials, bioresorbable medical glasses, sealing glasses, optical fibers, solid-state electrolytes, and specialty coatings. The supply chain begins upstream with phosphate rock mining → phosphoric acid production (wet or thermal process) → purification to electronic- or optical-grade  $\text{P}_2\text{O}_5$ , alongside sourcing alkali carbonates, alkaline-earth oxides, and dopants (e.g., rare-earth oxides); midstream processing involves batch mixing, melting (typically 700–1,200°C depending on composition), refining, casting or fiber drawing, annealing, and precision finishing; downstream, metaphosphate glass is integrated into photonics (laser gain media, IR optics), biomedical implants (resorbable scaffolds), specialty sealing systems for electronics, and advanced energy or sensor applications, with value concentration highest in high-purity optical and rare-earth-doped laser-grade products. In 2025, global metaphosphate glass output totaled about 38,000 tons against 49,000 tons of capacity, with prices at USD 12,000–22,000 per ton and average gross margins near 33%.

This report studies the global Metaphosphate Glass production, demand, key

manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Metaphosphate Glass total production and demand, 2021-2032, (Tons)

Global Metaphosphate Glass total production value, 2021-2032, (USD Million)

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

Global Metaphosphate Glass consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Metaphosphate Glass domestic production, consumption, key domestic manufacturers and share

Global Metaphosphate Glass production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Metaphosphate Glass production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Metaphosphate Glass production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Metaphosphate Glass 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 SCHOTT (Germany), Corning (USA), Technical Glass Products (USA), Ohara (Japan), AGC Group (Japan), Hikari Glass (Japan), Hoya Corporation (Japan), Sumita Optical Glass (Japan), Nippon Electric Glass (Japan), Guangming Optoelectronic Materials (China), 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 Metaphosphate Glass 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 Metaphosphate Glass Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Metaphosphate Glass Market, Segmentation by Type:

Alkali Metaphosphate Glass

Alkaline-Earth Metaphosphate Glass

Mixed-Cation Metaphosphate Glass

#### Global Metaphosphate Glass Market, Segmentation by Thermal Property:

Low Temperature (500°C)

## Global Metaphosphate Glass Market, Segmentation by Application:

Photonic

Healthcare

Energy Storage

Aerospace & Defense

Others

## Companies Profiled:

SCHOTT (Germany)

Corning (USA)

Technical Glass Products (USA)

Ohara (Japan)

AGC Group (Japan)

Hikari Glass (Japan)

Hoya Corporation (Japan)

Sumita Optical Glass (Japan)

Nippon Electric Glass (Japan)

Guangming Optoelectronic Materials (China)

## Key Questions Answered:

1. How big is the global Metaphosphate Glass market?
2. What is the demand of the global Metaphosphate Glass market?

3. What is the year over year growth of the global Metaphosphate Glass market?
4. What is the production and production value of the global Metaphosphate Glass market?
5. Who are the key producers in the global Metaphosphate Glass market?
6. What are the growth factors driving the market demand?

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