

# Global Metaphosphate Glass Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Metaphosphate Glass market size was valued at US\$ 534 million in 2025 and is forecast to a readjusted size of US\$ 807 million by 2032 with a CAGR of 6.1% during review period.

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 is a detailed and comprehensive analysis for global Metaphosphate Glass market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Metaphosphate Glass market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Metaphosphate Glass market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Metaphosphate Glass market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Metaphosphate Glass market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Metaphosphate Glass

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Metaphosphate Glass market based on the following parameters - company overview, sales quantity, revenue, 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.

## **Market Segmentation**

Metaphosphate Glass market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Alkali Metaphosphate Glass

Alkaline-Earth Metaphosphate Glass

Mixed-Cation Metaphosphate Glass

### Market segment by Thermal Property

Low Temperature (500°C)

### Market segment by Application

Photonic

Healthcare

Energy Storage

Aerospace & Defense

Others

Major players covered

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)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Metaphosphate Glass product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Metaphosphate Glass, with price, sales quantity, revenue, and global market share of Metaphosphate Glass from 2021 to 2026.

Chapter 3, the Metaphosphate Glass competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Metaphosphate Glass breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Metaphosphate Glass market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Metaphosphate Glass.

Chapter 14 and 15, to describe Metaphosphate Glass sales channel, distributors, customers, research findings and conclusion.

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