

Global Bismuth Trioxide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bismuth Trioxide market size is expected to reach \$ 280 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032). Bismuth trioxide is an inorganic compound with the chemical formula Bi_2O_3 . It is a yellow, heavy powder that is insoluble in water but soluble in acids. The most notable characteristic of this compound is the existence of multiple crystalline forms, primarily including the α -form, which is stable at room temperature; the β -form, which exhibits extremely high oxygen ion conductivity at high temperatures; and the γ - and δ -forms, which exist between these two.

The supply chain structure of bismuth trioxide is clear. The upstream segment mainly involves the supply of bismuth metal, including the mining of bismuth ore, the recovery of crude bismuth from by-products of lead and copper smelting, and raw materials purified through intermediate compounds such as bismuth nitrate. Global sales are projected to be approximately 17,000 tons in 2025, with an average market price of approximately US\$12,362.82 per ton. The industry's gross profit margin is in the range of 15%-30%.

The main industry drivers are the environmentally friendly properties and versatility of bismuth trioxide. Due to the relatively low toxicity of bismuth and its compounds, bismuth trioxide is becoming an ideal substitute for lead. Particularly in high-end applications such as electronic ceramics, catalysts, and optical glass, technological upgrades in these industries have directly driven the demand for high-purity, specialty bismuth oxide products. At the same time, the iteration and innovation of production technologies, such as new processes like the low-temperature oxidation method for bismuth powder that reduces energy consumption and pollution, provide opportunities to enhance product competitiveness and explore new applications.

This report studies the global Bismuth Trioxide production, demand, key manufacturers,

and key regions.

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

Highlights and key features of the study

Global Bismuth Trioxide total production and demand, 2021-2032, (Tons)

Global Bismuth Trioxide total production value, 2021-2032, (USD Million)

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

Global Bismuth Trioxide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Bismuth Trioxide domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Bismuth Trioxide 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 5N Plus, Shepherd Chemical Company, Vital Materials, Zhuzhou Keneng New Material, Xianyang Yuehua Bismuth, Hunan Jintai Bismuth, Guixi Dasanyuan Industrial, Changsha Kunyong New Materials, Changsha Shengte New Materials, 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 Bismuth Trioxide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (K 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 Bismuth Trioxide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bismuth Trioxide Market, Segmentation by Type:

Purity 99%

Purity 99.9%

Purity 99.99%

Global Bismuth Trioxide Market, Segmentation by Preparation Method:

Wet Chemical Method

Pyrometallurgy

Other

Global Bismuth Trioxide Market, Segmentation by Crystal Structure:

?-Bi₂O₃?

?-Bi?O?

?-Bi?O?

Other

Global Bismuth Trioxide Market, Segmentation by Application:

Metallurgical Industry

Ceramic Industry

Optical Applications

Others

Companies Profiled:

5N Plus

Shepherd Chemical Company

Vital Materials

Zhuzhou Keneng New Material

Xianyang Yuehua Bismuth

Hunan Jintai Bismuth

Guixi Dasanyuan Industrial

Changsha Kunyong New Materials

Changsha Shengte New Materials

Key Questions Answered:

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

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