

# Global Bismuth Phosphide Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Bismuth Phosphide market size is expected to reach \$ 121 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

Bismuth Phosphide is an inorganic semiconductor compound composed of bismuth and phosphorus, typically represented by the chemical formula BiP. It belongs to the III-V or metal phosphide-related material family and is mainly researched and used in semiconductor electronics, thermoelectric materials, infrared optoelectronics, quantum materials, and advanced energy-related applications due to its narrow bandgap, high carrier mobility potential, and unique electronic properties. The supply chain of Bismuth Phosphide begins with upstream raw materials including high-purity bismuth metal, phosphorus or phosphine-related chemicals, specialty acids, and ultra-high-purity semiconductor processing gases supplied by mining, refining, and specialty chemical companies. Midstream production involves phosphidation synthesis, vacuum or inert-atmosphere crystal growth, powder synthesis, sputtering target fabrication, and semiconductor-grade purification processes carried out by advanced materials manufacturers and compound semiconductor suppliers. Processing technologies may include chemical vapor transport, solid-state reactions, molecular beam epitaxy (MBE), or chemical vapor deposition (CVD) for thin films and crystal fabrication. Downstream applications include thermoelectric devices, infrared detectors, spintronic materials, quantum computing research, semiconductor wafers, advanced sensors, and laboratory R&D systems used by universities, semiconductor companies, defense contractors, and advanced electronics manufacturers. The industry is highly specialized, with strong dependence on ultra-high-purity material processing, semiconductor fabrication infrastructure, and research-driven demand from North America, Europe, China, Japan, and South Korea. In 2025, global Bismuth Phosphide output was about 3,000 tons with 4,000 tons of capacity, average prices of USD 20,000–40,000 per ton, and gross

margins around 36%.

This report studies the global Bismuth Phosphide production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Bismuth Phosphide 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 American Elements (USA), Ereztech (USA), Materion (USA), 5N Plus (Canada), Umicore (Belgium), JX Advanced Metals (Japan), Mitsubishi Chemical (Japan), Vital Materials (China), Keneng New Material (China), GRINM Advanced 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 Bismuth Phosphide 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 Bismuth Phosphide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bismuth Phosphide Market, Segmentation by Type:

Industrial Grade (95–99%)

High-Purity Grade (99-99.9%)

Ultra-High-Purity Grade (>99.9%)

Global Bismuth Phosphide Market, Segmentation by Crystal Structure:

Polycrystalline BiP

Monocrystalline BiP

Amorphous BiP

Global Bismuth Phosphide Market, Segmentation by Application:

Semiconductor

Infrared Imaging

Thermoelectric Energy

Others

Companies Profiled:

American Elements (USA)

Ereztech (USA)

Materion (USA)

5N Plus (Canada)

Umicore (Belgium)

JX Advanced Metals (Japan)

Mitsubishi Chemical (Japan)

Vital Materials (China)

Keneng New Material (China)

GRINM Advanced Materials (China)

Key Questions Answered:

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

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