

# Global Bismuth Phosphide Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G11F0036F622EN.html>

Date: June 2026

Pages: 94

Price: US\$ 3,480.00 (Single User License)

ID: G11F0036F622EN

## Abstracts

According to our (Global Info Research) latest study, the global Bismuth Phosphide market size was valued at US\$ 74.08 million in 2025 and is forecast to a readjusted size of US\$ 121 million by 2032 with a CAGR of 7.3% during review period.

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 is a detailed and comprehensive analysis for global Bismuth Phosphide 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 Bismuth Phosphide market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

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

Global Bismuth Phosphide 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 Bismuth Phosphide 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 Bismuth Phosphide

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 Bismuth Phosphide 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 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.

## Market Segmentation

Bismuth Phosphide 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

Industrial Grade (95–99%)

High-Purity Grade (99-99.9%)

Ultra-High-Purity Grade (>99.9%)

### Market segment by Crystal Structure

Polycrystalline BiP

Monocrystalline BiP

Amorphous BiP

### Market segment by Application

Semiconductor

Infrared Imaging

Thermoelectric Energy

Others

#### Major players covered

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)

#### 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 Bismuth Phosphide product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Bismuth Phosphide 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 Bismuth Phosphide 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 Bismuth Phosphide.

Chapter 14 and 15, to describe Bismuth Phosphide sales channel, distributors, customers, research findings and conclusion.

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