

Global Bismuth(III) Sulfide 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 Bismuth(III) Sulfide market size was valued at US\$ 98 million in 2025 and is forecast to a readjusted size of US\$ 149 million by 2032 with a CAGR of 6.2% during review period.

Bismuth(III) Sulfide is an inorganic semiconductor compound composed of bismuth and sulfur, appearing as a gray to black crystalline solid with a narrow bandgap (~1.3~1.7 eV), high photoconductivity, and good thermoelectric and optoelectronic properties. It is widely used in infrared detectors, photodetectors, thermoelectric materials, photovoltaic devices, sensors, catalysts, battery research, and advanced electronic materials. The supply chain begins with upstream raw materials including bismuth metal (primarily recovered as a by-product of lead, copper, tin, tungsten, and gold smelting) and elemental sulfur or sulfur-containing chemicals. These raw materials are processed through chemical synthesis methods such as direct sulfidation, hydrothermal synthesis, solvothermal synthesis, precipitation, or vapor-phase deposition to produce Bismuth(III) Sulfide powders, nanoparticles, nanorods, thin films, and high-purity semiconductor-grade materials. Midstream manufacturers refine, purify, and formulate Bi₂S₃ products according to purity, particle size, and morphology requirements. Downstream applications span electronics and semiconductors, optoelectronics, renewable energy, scientific research, environmental monitoring, thermoelectric devices, and emerging nanotechnology industries, with demand driven by advanced sensing and energy-conversion technologies. In 2025, global Bismuth(III) Sulfide output was about 5,000 tons with 7,000 tons of capacity, average prices of USD 15,000~35,000 per ton, and gross margins around 33%.

This report is a detailed and comprehensive analysis for global Bismuth(III) Sulfide

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

Global Bismuth(III) Sulfide 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(III) Sulfide 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(III) Sulfide 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(III) Sulfide

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(III) Sulfide 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), ESPI Metals (USA), Nanografi (Turkey), 5N Plus (Canada), Kojundo Chemical (Japan), EVOCHEM

(Germany), SCI Engineered Materials (USA), Able Target Limited (China), Hongwu International (China), Goodwill Metal Technology (China), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Bismuth(III) Sulfide 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?99.99%)

Ultra-High-Purity Grade (>99.99%)

Market segment by Physical Form

Powder

Granule

Sputtering Target

Pellet

Thin Film

Market segment by Application

Electronic

Semiconductor

Photovoltaic

Energy Storage

Others

Major players covered

American Elements (USA)

ESPI Metals (USA)

Nanografi (Turkey)

5N Plus (Canada)

Kojundo Chemical (Japan)

EVOCHEM (Germany)

SCI Engineered Materials (USA)

Able Target Limited (China)

Hongwu International (China)

Goodwill Metal Technology (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(III) Sulfide product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Bismuth(III) Sulfide 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(III) Sulfide 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(III) Sulfide.

Chapter 14 and 15, to describe Bismuth(III) Sulfide sales channel, distributors, customers, research findings and conclusion.

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