

Global Bismuth(III) Sulfide Market Growth 2026-2032

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Abstracts

The global Bismuth(III) Sulfide market size is predicted to grow from US\$ 92.93 million in 2025 to US\$ 144 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

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%.

United States market for Bismuth(III) Sulfide is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Bismuth(III) Sulfide is estimated to increase from US\$ million in 2025

to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Bismuth(III) Sulfide is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Bismuth(III) Sulfide players cover American Elements (USA), ESPI Metals (USA), Nanografi (Turkey), 5N Plus (Canada), Kojundo Chemical (Japan), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Bismuth(III) Sulfide Industry Forecast" looks at past sales and reviews total world Bismuth(III) Sulfide sales in 2025, providing a comprehensive analysis by region and market sector of projected Bismuth(III) Sulfide sales for 2026 through 2032. With Bismuth(III) Sulfide sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Bismuth(III) Sulfide industry.

This Insight Report provides a comprehensive analysis of the global Bismuth(III) Sulfide landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Bismuth(III) Sulfide portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Bismuth(III) Sulfide market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bismuth(III) Sulfide and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Bismuth(III) Sulfide.

This report presents a comprehensive overview, market shares, and growth opportunities of Bismuth(III) Sulfide market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Industrial Grade (95-99%)

High-Purity Grade (99?99.99%)

Ultra-High-Purity Grade (>99.99%)

Segmentation by Physical Form:

Powder

Granule

Sputtering Target

Pellet

Thin Film

Segmentation by Application:

Electronic

Semiconductor

Photovoltaic

Energy Storage

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bismuth(III) Sulfide market?

What factors are driving Bismuth(III) Sulfide market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Bismuth(III) Sulfide market opportunities vary by end market size?

How does Bismuth(III) Sulfide break out by Type, by Application?

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