

Global Zinc Sulfide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Zinc Sulfide market size is expected to reach \$ 204 million by 2032, rising at a market growth of 2.6% CAGR during the forecast period (2026-2032).

In 2024, global Zinc Sulfide reached approximately 4100 MT, with an average global market price of around US\$ 40000 per MT. Zinc Sulfide is an inorganic compound with the chemical formula ZnS. It is a white-to-pale yellow solid that exists in two primary crystalline forms, making it one of the most important and versatile compound semiconductors. The gross margin for Zinc Sulfide typically falls within a wide range of 15% to 40%, heavily dependent on the product grade.

The global Zinc Sulfide (ZnS) market is witnessing steady growth, driven by the increasing demand for optical materials, luminescent compounds, and high-performance pigments. Zinc Sulfide is a versatile compound with excellent optical transmittance in the visible and infrared range, making it valuable for use in optical windows, lenses, infrared sensors, and display panels. It also serves as a key ingredient in phosphors for electroluminescent devices, and as a white pigment and filler in plastics, paints, and coatings. From a regional perspective, the Asia-Pacific region holds the largest share of the global ZnS market due to strong growth in electronics, defense, and industrial manufacturing, particularly in China, Japan, and South Korea. North America and Europe also represent significant markets, supported by demand in aerospace, defense, and high-precision optical applications. However, the market faces challenges such as fluctuating raw material prices, environmental regulations related to zinc processing, and competition from alternative materials like zinc oxide and titanium dioxide in pigment applications. Despite these challenges, continuous improvements in manufacturing technologies and high-purity ZnS production are expected to create new opportunities, particularly in defense optics, medical imaging, and emerging photonic

technologies. The Zinc Sulfide (ZnS) industry chain consists of multiple stages, spanning from raw material extraction to end-use applications in various high-value industries. At the upstream stage, the primary raw materials include zinc concentrate, sulfur, and hydrogen sulfide gas, which are processed through chemical reactions (typically precipitation or vapor-phase synthesis) to produce ZnS powders or crystals. The purity level of the raw materials directly affects the performance of the final product, especially for optical- and electronic-grade ZnS. The midstream segment focuses on the manufacturing and processing of zinc sulfide products, including optical-grade ZnS, phosphor-grade ZnS, and industrial or pigment-grade ZnS. These products are produced through various techniques such as chemical vapor deposition (CVD), hydrothermal synthesis, or solid-state reactions, depending on the desired crystal quality and particle characteristics. Midstream manufacturers are responsible for refining ZnS into specific forms—such as powders, pellets, or optical windows—tailored to the requirements of different downstream industries. The downstream segment encompasses a wide range of application industries, including optics and infrared imaging, electronics, semiconductors, paints and coatings, plastics, ceramics, and phosphor materials. High-purity ZnS is used in infrared windows, thermal imaging systems, and laser components, while lower-grade ZnS serves as a pigment or filler in coatings, plastics, and rubber. The demand for Zinc Sulfide (ZnS) is expanding steadily, driven by its versatile applications in optics, electronics, pigments, and photonics. The material's excellent optical transmittance in both the visible and infrared spectra makes it indispensable for infrared windows, thermal imaging systems, night-vision devices, and laser protection optics, which are seeing rising adoption in defense, aerospace, and industrial automation. The growing use of ZnS in semiconductors, display technologies, and phosphor materials further strengthens market demand, particularly as emerging technologies such as LED lighting, infrared sensors, and medical imaging require high-purity optical materials. From a commercial perspective, Asia-Pacific—especially China, Japan, and South Korea—remains the largest and fastest-growing consumer market due to robust manufacturing bases in electronics, defense, and photonics. Meanwhile, North America and Europe are creating strong business opportunities for high-purity ZnS used in precision optics, defense-grade imaging systems, and scientific instruments. Increasing investment in infrared and thermal imaging technologies, coupled with advancements in nanotechnology and chemical vapor deposition (CVD) manufacturing, is expected to open new growth avenues for ZnS producers. In addition, the transition toward high-performance and environmentally friendly materials presents opportunities for ZnS to replace traditional compounds such as cadmium sulfide or lead-based phosphors. The rise of smart cities, autonomous vehicles, and industrial IoT sensors will further stimulate demand for ZnS-based optical and electronic components. Companies that can provide high-purity, cost-effective, and application-specific ZnS materials are

likely to gain a competitive edge in this evolving market landscape.

This report studies the global Zinc Sulfide production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Zinc Sulfide total production and demand, 2021-2032, (MT)

Global Zinc Sulfide total production value, 2021-2032, (USD Million)

Global Zinc Sulfide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MT), (based on production site)

Global Zinc Sulfide consumption by region & country, CAGR, 2021-2032 & (MT)

U.S. VS China: Zinc Sulfide domestic production, consumption, key domestic manufacturers and share

Global Zinc Sulfide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MT)

Global Zinc Sulfide production by Purity, production, value, CAGR, 2021-2032, (USD Million) & (MT)

Global Zinc Sulfide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MT)

This report profiles key players in the global Zinc Sulfide 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 Dow, Yunfuhongzhi, Talvivaara, Sachtleben Chemie, Vital Materials, Xiangtanhongyan, Youenli, Sigma-Aldrich, Triveni Interchem, II-VI

Incorporated, 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 Zinc Sulfide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (USD/MT) by manufacturer, by Purity, 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 Zinc Sulfide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Zinc Sulfide Market, Segmentation by Purity:

Above 99.99%

Above 99.9%

Above 97.0%

Global Zinc Sulfide Market, Segmentation by Crystal Structure:

Wurtzite

Sphalerite

Global Zinc Sulfide Market, Segmentation by Channel:

Online

Offline

Global Zinc Sulfide Market, Segmentation by Application:

Pigment

Optical Material

Luminescent Material

Companies Profiled:

Dow

Yunfuhongzhi

Talvivaara

Sachtleben Chemie

Vital Materials

Xiangtanhongyan

Youenli

Sigma-Aldrich

Triveni Interchem

II-VI Incorporated

Reade

American Elements

Guangdong Xinda Advanced Materials Technology

Key Questions Answered:

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

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