

Zinc Carbonate Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sales Channel (Direct, Indirect), By End Use (Rubber, Pharmaceuticals, Personal Care & Cosmetics, Paints & Coatings, Agriculture, Others), By Region and Competition, 2020-2030F

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Report description:

Market Overview

The Global Zinc Carbonate Market was valued at USD 160.85 Million in 2024 and is anticipated to reach USD 183.59 Million by 2030, growing at a CAGR of 4.75%. Zinc carbonate, an odorless, white, and insoluble compound, is recognized for its low toxicity, chemical stability, and effectiveness as a zinc source. These properties make it valuable across multiple industries including pharmaceuticals, cosmetics, agriculture, and chemicals. Its rising usage in formulations like topical medications, oral care products, and skincare applications is driving market growth amid increasing consumer focus on health, hygiene, and wellness. In the personal care segment, zinc carbonate's anti-inflammatory and antimicrobial benefits support its growing role in sunscreens and anti-dandruff shampoos. However, the market's progression is tempered by the volatility of raw material prices and regulatory constraints associated with chemical safety and environmental standards.

Key Market Drivers

Growing Demand of Zinc Carbonate in Rubber Industry

The expanding use of zinc carbonate in the rubber industry is a prominent growth driver for the global market. In vulcanization, zinc carbonate acts as an activator, enhancing the elasticity, durability, and mechanical performance of rubber compounds. As global demand for tires, industrial rubber products, and automotive components rises, so does the reliance on zinc carbonate as a crucial additive. In 2023, rubber production reached 28.8 million metric tons, reflecting steady industry growth. In particular, zinc carbonate nanopowder is gaining traction due to its favorable properties like uniform particle size and high surface area, which optimize its performance in rubber applications. Moreover, the automotive industry's focus on producing lightweight, high-performance, and environmentally sustainable rubber components-such as seals, gaskets, and hoses-is encouraging

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manufacturers to favor zinc carbonate over alternatives like zinc oxide for superior heat and chemical resistance.

Key Market Challenges

Volatility in Price of Raw Materials

The global zinc carbonate market faces considerable challenges from fluctuating raw material costs, particularly those of zinc ore and its derivatives. Influenced by geopolitical developments, mining disruptions, global demand fluctuations, and shifting trade policies, these price instabilities complicate cost forecasting and production planning. For producers, this volatility often leads to shrinking profit margins and unpredictable operational costs, which may be transferred to consumers in the form of higher prices. Additionally, dependence on mining operations-which are subject to environmental and regulatory pressures-further adds to supply chain risks, potentially impeding long-term investment and expansion strategies in the zinc carbonate industry.

Key Market Trends

Rising Demand for Specialty Grades

A growing trend in the zinc carbonate market is the heightened demand for specialty grades tailored to precise industrial requirements. In 2021, American Zinc Products (AZP) conducted successful trials producing Continuous Galvanizing Grade (CGG) zinc, which enhances process efficiency and product quality in steel galvanizing. AZP's high-purity zinc, low in lead content, supports the production of premium-grade zinc carbonate for diverse sectors. Specialty grades of zinc carbonate offer superior purity, optimized particle sizes, and specific physicochemical attributes that meet strict regulatory and performance standards. These grades are increasingly used in pharmaceutical formulations, high-end cosmetics, and performance rubber products. In the rubber industry, they enable better vulcanization and durability; in healthcare and beauty applications, they provide enhanced safety and consistency, aligning with regulatory and consumer expectations for high-quality, functional materials.

Key Market Players

- Shandong Yurun Chemical Co., Ltd.
- Shanghai Hy-Sailing Chemical Tech Co., Ltd
- Shaanxi Green Agri Co. Ltd.
- Haryana Polymers Limited
- Neelkanth Finechem LLP
- Rubamin
- TAIZHOU ZHENYU BIOTECHNOLOGY CO., LTD
- Anhui Fitech Material Co., Ltd.
- Norkem
- L Bruggemann

Report Scope

In this report, the Global Zinc Carbonate Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Zinc Carbonate Market, By Sales Channel:

- o Direct
- o Indirect

- Zinc Carbonate Market, By End Use:

- o Rubber
- o Pharmaceuticals
- o Personal Care & Cosmetics
- o Paints & Coatings
- o Agriculture
- o Others

- Zinc Carbonate Market, By Region:

- o North America
 - United States
 - Canada

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- South Korea
- o South America
- Brazil
- Argentina
- Colombia
- o Middle East & Africa
- South Africa
- Saudi Arabia
- UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Zinc Carbonate Market.

Available Customizations

Global Zinc Carbonate Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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