

Global Low-Temperature Zinc Oxide Desulfurization Agent Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-Temperature Zinc Oxide Desulfurization Agent market size is expected to reach \$ 171 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Low-temperature zinc oxide desulfurization agents are solid fine-desulfurization materials that utilize active zinc oxide as the primary desulfurization component. Their low-temperature reactivity is enhanced through techniques such as pore expansion and the incorporation of promoters—including copper, alkali metals, and other metal oxides—via loading or direct addition. Typically manufactured as extrudates, cylinders, or spherical pellets, these agents are loaded into fixed-bed reactors. Operating at temperatures ranging from ambient to approximately 250°C, they chemically absorb hydrogen sulfide from feedstock gases or liquid hydrocarbons, converting it into stable zinc sulfide; certain products are also capable of removing COS, CS₂, and low-molecular-weight mercaptans.

Upstream raw materials primarily include zinc sources (such as active zinc oxide, basic zinc carbonate, or zinc hydroxide), supports (such as alumina or silica), and promoting components (such as copper oxide, magnesium oxide, manganese oxides, or alkali metal salts), alongside binders, pore-forming agents, lubricants, and molding aids. Downstream applications are found in hydrogen production, ammonia synthesis, methanol production, coal chemical processing, natural gas treatment, and refining/petrochemical facilities, where these agents are typically positioned downstream of hydrodesulfurization or COS hydrolysis units.

Global sales volume is projected to reach approximately 23,000 metric tons in 2025, with prices generally ranging from \$4,500 to \$6,000 per ton and leading manufacturers

achieving gross margins of approximately 25% to 38%.

Report Scope

This report studies the global Low-Temperature Zinc Oxide Desulfurization Agent production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-Temperature Zinc Oxide Desulfurization Agent 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 Low-Temperature Zinc Oxide Desulfurization Agent that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low-Temperature Zinc Oxide Desulfurization Agent total production and demand, 2021-2032, (Tons)

Global Low-Temperature Zinc Oxide Desulfurization Agent total production value, 2021-2032, (USD Million)

Global Low-Temperature Zinc Oxide Desulfurization Agent production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Low-Temperature Zinc Oxide Desulfurization Agent consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Low-Temperature Zinc Oxide Desulfurization Agent domestic production, consumption, key domestic manufacturers and share

Global Low-Temperature Zinc Oxide Desulfurization Agent production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Low-Temperature Zinc Oxide Desulfurization Agent production by Type,

production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Low-Temperature Zinc Oxide Desulfurization Agent production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Low-Temperature Zinc Oxide Desulfurization Agent 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 Topsoe, UNICAT Catalyst Technologies, Honeywell Technologies, Southwest Research & Design Institute of Chemical Industry, Haiso Technology, Hunan Huanda Environmental Protection, Kunshan Huahai Environmental Protection Technology, Shenyang Sanju Kaite Catalyst, Rezel Catalysts, Shenyang Rainda Chemical, 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 Low-Temperature Zinc Oxide Desulfurization Agent market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, 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 Low-Temperature Zinc Oxide Desulfurization Agent Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Low-Temperature Zinc Oxide Desulfurization Agent Market, Segmentation by Type:

High-Purity Zinc Oxide

Accelerator-Grade Zinc Oxide

Other

Global Low-Temperature Zinc Oxide Desulfurization Agent Market, Segmentation by Form:

Extruded

Granular

Other

Global Low-Temperature Zinc Oxide Desulfurization Agent Market, Segmentation by Application:

Refinery Hydrogen Production

Ammonia Synthesis

Methanol Synthesis

Natural Gas Purification

Others

Companies Profiled:

Topsoe

UNICAT Catalyst Technologies

Honeywell Technologies

Southwest Research & Design Institute of Chemical Industry

Haiso Technology

Hunan Huanda Environmental Protection

Kunshan Huahai Environmental Protection Technology

Shenyang Sanju Kaite Catalyst

Rezel Catalysts

Shenyang Rainda Chemical

Key Questions Answered

1. How big is the global Low-Temperature Zinc Oxide Desulfurization Agent market?
2. What is the demand of the global Low-Temperature Zinc Oxide Desulfurization Agent market?

3. What is the year over year growth of the global Low-Temperature Zinc Oxide Desulfurization Agent market?
4. What is the total value of the global Low-Temperature Zinc Oxide Desulfurization Agent market?
5. Who are the Major Players in the global Low-Temperature Zinc Oxide Desulfurization Agent market?
6. What are the growth factors driving the market demand?

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