

Global Low-Temperature Zinc Oxide Desulfurization Agent Market Growth 2026-2032

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Abstracts

The global Low-Temperature Zinc Oxide Desulfurization Agent market size is predicted to grow from US\$ 120 million in 2025 to US\$ 165 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 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%.

United States market for Low-Temperature Zinc Oxide Desulfurization Agent 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 Low-Temperature Zinc Oxide Desulfurization Agent 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 Low-Temperature Zinc Oxide Desulfurization Agent is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Low-Temperature Zinc Oxide Desulfurization Agent players cover Topsoe, UNICAT Catalyst Technologies, Honeywell Technologies, Southwest Research & Design Institute of Chemical Industry, Haiso Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Low-Temperature Zinc Oxide Desulfurization Agent 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 Low-Temperature Zinc Oxide Desulfurization Agent portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Low-Temperature Zinc Oxide Desulfurization Agent market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-Temperature Zinc Oxide Desulfurization Agent 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 Low-Temperature Zinc Oxide Desulfurization Agent.

This report presents a comprehensive overview, market shares, and growth opportunities of Low-Temperature Zinc Oxide Desulfurization Agent market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

High-Purity Zinc Oxide

Accelerator-Grade Zinc Oxide

Other

Segmentation by Form:

Extruded

Granular

Other

Segmentation by Application:

Refinery Hydrogen Production

Ammonia Synthesis

Methanol Synthesis

Natural Gas Purification

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.

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 Addressed in this Report

What is the 10-year outlook for the global Low-Temperature Zinc Oxide Desulfurization Agent market?

What factors are driving Low-Temperature Zinc Oxide Desulfurization Agent market growth, globally and by region?

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

How do Low-Temperature Zinc Oxide Desulfurization Agent market opportunities vary by end market size?

How does Low-Temperature Zinc Oxide Desulfurization Agent break out by Type, by Application?

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