

# Hydrosulfurization Catalyst Industry Analysis Report 2025: Key Trends, Drivers, and Forecast Insights

*The Business Research Company's  
Hydrosulfurization Catalyst Global  
Market Report 2025 – Market Size,  
Trends, And Forecast 2025-2034*

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[Hydrosulfurization Catalyst Market](#)

Growth Forecast: What To Expect By 2025?

The steady expansion of the hydrosulfurization catalyst market has been observed in recent years. From 2024 to 2025, the market size is predicted to rise from \$2.89 billion to \$3 billion, with a compound annual growth rate (CAGR) of 4.0%. The historic period's growth is attributable to

factors such as enhancements and expansion of refineries, strict environmental guidelines, the internationalization of the oil and gas industry, a shift towards more environmentally friendly fuels, and an emphasis on energy security.

The market size of the hydrosulfurization catalyst is projected to witness a substantial rise in the forthcoming years. The market is expected to expand to a worth of \$3.79 billion by 2029, exhibiting a compound annual growth rate (CAGR) of 6.0%. Factors such as the rising emphasis on renewable energy, transition towards a

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hydrogen-based economy, persistent regulatory strictness, demand for eco-friendly catalysts, geopolitical changes in energy markets, and growing significance of biofuels contribute to the growth during the forecast period. Prevalent trends during this period encompass the incorporation of nanotechnology, research and development for breakthroughs in catalysts, digitization and process enhancement, technological partnerships and collaborations, and advancements in catalyst technologies.

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### What Are Key Factors Driving The Demand In The Global Hydrodesulfurization Catalyst Market?

The upward trend in the requirement for transport fuels is predicted to drive the expansion of the hydrodesulfurization catalyst market. Transport fuels are used to run vehicles with internal combustion engines. Gasoline/Petrol, Diesel, LPG, jet fuel, and marine fuel are all examples of these fuels. Hydrodesulfurization catalysts are utilized in crude oil refineries to get rid of damaging organosulfur compounds and produce cleaner transportation fuels. For example, the American Public Transportation Association reported in September 2024, that there were 7.1 billion total public transit rides in 2023, a 16% growth compared to 2022. Consequently, the increased demand for transport fuel is encouraging the expansion of the hydrodesulfurization catalyst market.

### Who Are The Leading Players In The Hydrodesulfurization Catalyst Market?

Major players in the Hydrodesulfurization Catalyst include:

- Albemarle Corporation
- Advanced Refining Technologies LLC
- China Petroleum & Chemical Corporation
- Haldor Topsoe Holding A/S
- Shell PLC.
- PetroChina Company Limited
- Axens SA
- JGC C&C
- Honeywell UOP
- Johnson Matthey PLC.

### What Are The Major Trends That Will Shape The Hydrodesulfurization Catalyst Market In The Future?

The rising trend of creative utilization of byproducts from hydrodesulfurization is influencing growth in the hydrodesulfurization catalyst market. Key industry players are focusing on discovering applications for hydrodesulfurization byproducts to enhance profits and maintain their market position. For example, in April 2022, Chevron Phillips Chemical Company LLC, a company based in the US specializing in chemical production, established a new hydrodesulfurization (HDS) with the aim of driving sustainability. This new HDS will encourage circularity by transforming sulfur into hydrogen sulfide, which will be used to produce mercaptans. It will also reduce SO<sub>2</sub> emissions and provide fuel for a new cogeneration unit, creating both steam and electricity for the facility.

### Analysis Of Major Segments Driving The [Hydrodesulfurization Catalyst Market Growth](#)

The hydrodesulfurization catalyst market covered in this report is segmented –

- 1) By Type: Cobalt-Molybdenum, Nickel-Based, Other Types
- 2) By Feedstock: Natural Gas, Naphtha, Heavy Oil, Diesel Oil, Kerosene, Other Feed Stocks

3) By End Use Industry: Petrochemicals, Natural Gas Processing

Subsegments:

1) By Cobalt-Molybdenum: Cobalt-Molybdenum On Alumina Support, Cobalt-Molybdenum On Zeolite Support

2) By Nickel-Based: Nickel-Molybdenum Catalysts, Nickel-Tungsten Catalysts

3) By Other Types: Platinum-Based Catalysts, Palladium-Based Catalysts, Iron-Based Catalysts

View the full hydrodesulfurization catalyst market report:

<https://www.thebusinessresearchcompany.com/report/hydrodesulfurization-catalyst-global-market-report>

Which Region Is Expected To Lead The Hydrodesulfurization Catalyst Market By 2025?

In 2024, the hydrodesulfurization catalyst market was dominated by the Asia-Pacific region. North America is predicted to experience the most significant growth in this market over the predicted period. The report on the hydrodesulfurization catalyst market includes regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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