

Global and European Hydrodesulphurization Catalyst Market Outlook 2025–2035

Hydrodesulfurization Catalyst Market to Reach 5,295.8 million by 2035— Growth Accelerates Across Asia Pacific, Middle East, USA, and Europe

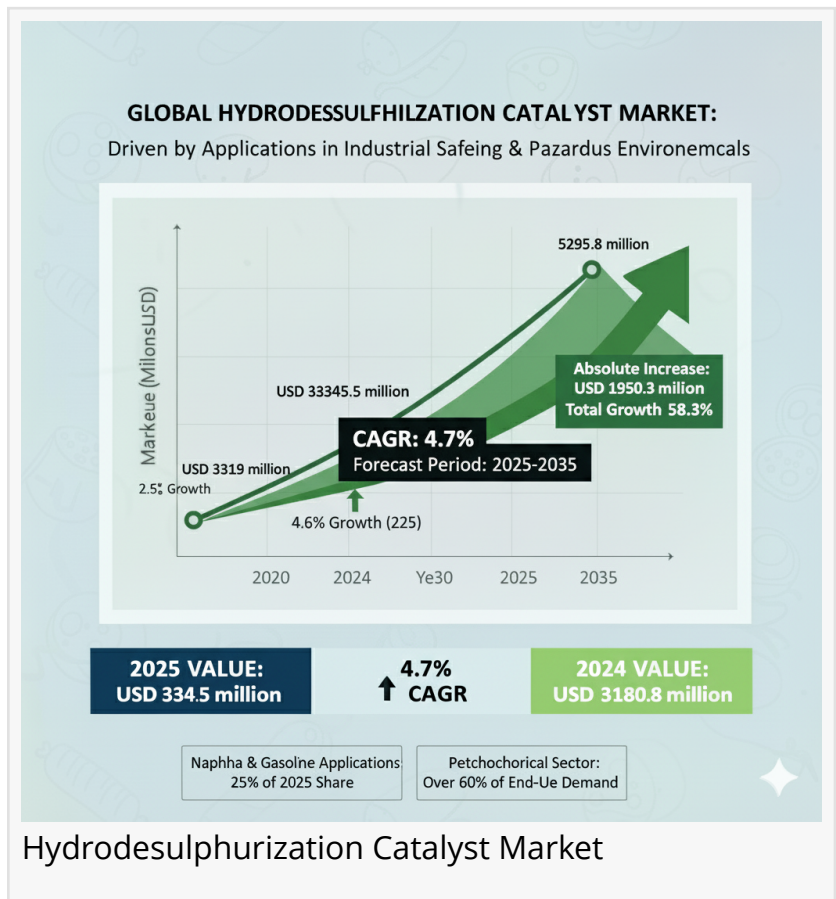
MD, UNITED STATES, November 13, 2025 /EINPresswire.com/ -- The global [hydrodesulfurization \(HDS\) catalyst market](#) is poised for steady expansion through 2035, fueled by stringent emission regulations, petrochemical capacity growth, and refinery modernization. According to Future Market Insights (FMI), the market is valued at USD 3,345.5 million in 2025 and is projected to hit USD 5,295.8 million by 2035, advancing at a compound annual growth rate (CAGR) of 4.7%.

The FMI report, “Hydrodesulfurization Catalyst Market Size, Share, and Forecast 2025–2035,” reveals global revenues will increase by nearly USD 1,950 million over the decade, propelled by demand for cleaner fuels and high-activity catalysts in refining and petrochemical operations.

A Decade of Growth Anchored by Regulatory Compliance and Catalyst Innovation:

The push for ultra-low sulfur diesel (ULSD) and gasoline under frameworks like Euro VI, Bharat Stage VI, and IMO 2020 is reshaping refinery strategies. Between 2025 and 2030, the HDS catalyst market will grow by approximately USD 850 million, driven by upgrades in diesel and naphtha desulfurization units.

From 2030 to 2035, FMI projects an additional USD 1,100 million in expansion, reflecting investments in nanostructured catalysts, bimetallic formulations, and integrated refining-



petrochemical models.

“Advanced HDS catalysts are enabling refiners to achieve deeper sulfur removal with lower hydrogen consumption and extended cycle life,” said Nikhil Kaitwade, FMI research analyst. “As developing economies enforce tighter limits, catalyst performance is becoming a key differentiator for operational efficiency.”

Hydrodesulfurization Catalyst Key Market Insights at a Glance:

Metric- Global Estimate

Market Value (2025)- USD 3,345.5 million

Forecast Value (2035)- USD 5,295.8 million

CAGR- 4.7%

Leading Application- Naphtha and Gasoline (~55% share)

Dominant End-Use- Petrochemicals (>60% share)

Fastest-Growing Segment- Petrochemicals (7.4% CAGR)

Asia Pacific: The Fastest-Growing Hydrodesulfurization Catalyst Hub:

FMI analysis highlights Asia Pacific's dominance, with new grassroots refineries and petrochemical complexes in China, India, and South Korea driving uptake. The region benefits from integrated models and feed-flexibility needs, where NiMo and CoMo catalysts handle sour, cracked feedstocks. Demand for sulfur-free intermediates in ethylene and aromatics production further accelerates growth.

Hydrodesulfurization Catalyst Five Forces Driving Market Expansion:

Stringent Regulations: Global mandates for <10 ppm sulfur in diesel and gasoline compel HDS unit upgrades and catalyst replacement.

Petrochemical Integration: Over 60% of demand stems from feed purification to prevent downstream poisoning in crackers and reformers.

Catalyst Innovation: Nanostructured phases, optimized pores, and bimetallic systems reduce coke formation and boost longevity.

Refinery Modernization: Post-refurbishment throughput resurgence increases consumption of

high-stability catalysts.

Emerging Market Demand: Urbanization and air quality initiatives in Asia Pacific, Latin America, and Africa spur new desulfurization projects.

Hydrodesulfurization Catalyst Market Segment Overview:

By Type: Cobalt-Molybdenum (Co-Mo) catalysts lead, supporting diesel hydrodesulfurization and commanding significant share through 2035.

By Feedstock: Naphtha-based holds the largest volume, tied to gasoline refining and octane management needs.

By End-Use Industry: Petrochemicals dominate with >60% share in 2025, growing at 7.4% CAGR due to sulfur-sensitive downstream processes.

By Application: Naphtha and gasoline segment expands at 6.8% CAGR, balancing deep desulfurization with olefin preservation.

Hydrodesulfurization Catalyst Market Regional Overview:

North America: USA growth at 4.5% CAGR, driven by Tier 3 specifications and renewable diesel processing.

Europe: European Union at 4.7% CAGR, led by Germany and Netherlands with mixed oxide and nano-structured catalysts.

Asia Pacific: Fastest regional growth from capacity expansions in China, India, South Korea (5.0% CAGR), and Saudi Arabia.

Middle East & Africa: New refinery projects and heavier feedstock processing sustain demand for robust HDS systems.

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Hydrodesulfurization Catalyst Market Competitive Landscape:

* Albemarle Corporation

* Haldor Topsoe A/S

- * Axens
- * BASF SE
- * Johnson Matthey PLC
- * Shell Catalysts & Technologies
- * Clariant AG
- * Criterion Catalysts & Technologies L.P.
- * Honeywell UOP
- * China Petroleum & Chemical Corporation (Sinopec)

Top players like Albemarle, Haldor Topsoe, and Axens hold substantial share through R&D in low-temperature activity, aromatic feed tolerance, and deactivation resistance. Strategic refinery partnerships and custom formulations strengthen their positions amid intensifying competition.

Hydrodesulfurization Catalyst Market Outlook: Securing Cleaner Fuels in Transition:

Through 2035, HDS catalysts will remain vital in the energy transition, bridging petroleum reliance with compliance needs. Innovations in poisoning-resistant materials and regeneration cycles will optimize costs for smaller refineries.

“As the world phases toward renewables, HDS technology ensures low-sulfur fuels power transportation without environmental compromise,” Kaitwade added. “Manufacturers investing in multifunctional, high-throughput catalysts will lead the market’s resilient evolution.”

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