

Global Residue Hydrodesulfurization Catalyst Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Residue Hydrodesulfurization Catalyst market size is expected to reach \$ 152 million by 2032, rising at a market growth of 2.0% CAGR during the forecast period (2026-2032).

In 2025, global Residue Hydrodesulfurization Catalyst production reached approximately 43 kilotons with an average global market price of around US\$3000 per ton. Single-line annual production capacity averages 2000 tons with a gross margin of approximately 28%. The upstream core of the Resid Hydrotreating Catalyst industry consists of the production and supply of specialized alumina supports, active metal precursors such as molybdenum, cobalt, and nickel, as well as proprietary additives, which are primarily concentrated in the basic chemical and non-ferrous metal smelting sectors. Downstream, the catalyst is predominantly applied in processing vacuum residue, accounting for approximately 70% of consumption, while atmospheric residue treatment constitutes about 30%. Demand is fundamentally driven by increasingly stringent global clean fuel regulations (e.g., China VI, IMO 2020), which mandate the production of low-sulfur fuel oil and compel refineries to conduct deep processing of heavy residual oils. The key business opportunity lies in developing cost-effective catalyst systems capable of simultaneously achieving efficient desulfurization, demetallization, and coke inhibition, thereby enabling refineries to balance environmental compliance with the economic benefits of heavy oil conversion.

Residue Hydrodesulfurization Catalysts are engineered to process heavy hydrocarbon fractions containing high concentrations of sulfur, nitrogen, metals (e.g., Ni, V), and asphaltenes. Their primary role is to facilitate hydrogenation and hydrogenolysis reactions under severe hydroprocessing conditions (high temperature and pressure), which not only achieve deep desulfurization but also saturate aromatic rings, crack large

molecules, and mitigate metal deposition and coke formation. This results in significant reduction of sulfur content to meet stringent fuel specifications, while concurrently converting heavy residues into more valuable, lower-boiling distillates and improving the overall quality of the refinery feedstock slate. The catalyst design typically incorporates tailored pore structures and active metal phases (e.g., Ni-Mo, Co-Mo on specialized supports like alumina) to balance accessibility for bulky reactants, resistance to fouling, and sustained activity in a challenging, contaminant-laden environment.

The future development of Residue Hydrodesulfurization Catalysts will focus on addressing increasingly inferior feedstock quality and the industrial transition needs under the carbon neutrality backdrop. Its core direction lies in developing multifunctional integrated systems: by designing micro-nano structures such as core-shell configurations and hierarchical pores, and incorporating specific additives, the catalyst can achieve deep desulfurization while efficiently removing metals like nickel and vanadium and inhibiting coke formation, enabling it to process inferior residue oils with metal contents exceeding 500 ppm. The industry will deeply integrate artificial intelligence and micro-scale reaction simulations to enable targeted design of catalytic materials and process optimization, promoting intelligent coupling with advanced processes such as slurry-bed reactors to achieve real-time control of reaction processes and extended service life. On the other hand, the green recycling and economic viability of catalysts are becoming critically important, with low-energy regeneration technologies and efficient recovery processes for valuable metals set to become standard. As refineries shift toward petrochemical integration, catalyst design must balance high conversion rates of heavy oil with selective cracking capabilities to maximize the production of light petrochemical feedstocks, while also exploring potential applications in new feedstocks such as biomass-derived heavy oils. Ultimately, the next generation of catalysts must maintain structural stability under higher operating pressures and temperature fluctuations, serving as a key technological pillar to support refineries in balancing environmental regulations with economic benefits.

This report studies the global Residue Hydrodesulfurization Catalyst production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Residue Hydrodesulfurization Catalyst 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 Residue Hydrodesulfurization Catalyst that contribute to its increasing demand across many

markets.

Highlights and key features of the study

Global Residue Hydrodesulfurization Catalyst total production and demand, 2021-2032, (K MT)

Global Residue Hydrodesulfurization Catalyst total production value, 2021-2032, (USD Million)

Global Residue Hydrodesulfurization Catalyst production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Residue Hydrodesulfurization Catalyst consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Residue Hydrodesulfurization Catalyst domestic production, consumption, key domestic manufacturers and share

Global Residue Hydrodesulfurization Catalyst production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Residue Hydrodesulfurization Catalyst production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Residue Hydrodesulfurization Catalyst production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Residue Hydrodesulfurization Catalyst 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 JGC Group, ART Hydroprocessing, Axens, Topsoe, Shell, Albemarle, Honeywell UOP, Johnson Matthey, Nippon Ketjen, Sinopec, 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 Residue Hydrodesulfurization Catalyst market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) 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 Residue Hydrodesulfurization Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Residue Hydrodesulfurization Catalyst Market, Segmentation by Type:

Supported Catalyst

Dispersible Catalyst

Global Residue Hydrodesulfurization Catalyst Market, Segmentation by Physical State:

Heterogeneous Catalyst

Others

Global Residue Hydrodesulfurization Catalyst Market, Segmentation by Deactivation Resistance Design:

Metal-resistant Catalyst

Coke-resistant Catalyst

High Pore-volume Catalyst

Others

Global Residue Hydrodesulfurization Catalyst Market, Segmentation by Application:

Atmospheric Residue

Vacuum Residue

Companies Profiled:

JGC Group

ART Hydroprocessing

Axens

Topsoe

Shell

Albemarle

Honeywell UOP

Johnson Matthey

Nippon Ketjen

Sinopec

Key Questions Answered:

1. How big is the global Residue Hydrodesulfurization Catalyst market?
2. What is the demand of the global Residue Hydrodesulfurization Catalyst market?
3. What is the year over year growth of the global Residue Hydrodesulfurization Catalyst market?
4. What is the production and production value of the global Residue Hydrodesulfurization Catalyst market?
5. Who are the key producers in the global Residue Hydrodesulfurization Catalyst market?
6. What are the growth factors driving the market demand?

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