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Global FCC Pretreat Catalysts Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global FCC Pretreat Catalysts market size is expected to reach $ 254 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032).

FCC Pretreat Catalysts are a class of refining catalysts used in the upstream hydro-pretreatment units of FCC or RFCC (Residue FCC) facilities. They primarily process feedstocks such as vacuum gas oil (VGO), coker gas oil, deasphalted oil, and cracked cycle oil. By facilitating hydrodesulfurization, hydrodenitrogenation, hydrodemetallization, and aromatic saturation?as well as reducing the tendency for coke formation?these catalysts improve feedstock quality, lower SOx, NOx, and coke generation in the regenerator, and increase the yields of target products like gasoline, diesel, and propylene.

Upstream raw materials primarily include alumina supports, pseudoboehmite, and salts of hydrogenation-active metals (such as molybdenum, nickel, cobalt, and tungsten), along with promoters (phosphorus, silicon, titanium, zirconium) and chemicals required for shaping, impregnation, and calcination. The alumina support determines properties such as pore structure, mechanical strength, pressure drop, and metal dispersion capability, while the metal systems (Mo, Ni, Co, W) dictate performance regarding desulfurization, denitrogenation, hydrogenation saturation, and resistance to deactivation. Since FCC feedstocks are typically heavier and contain more impurities, these catalysts must balance requirements for macropore diffusion, resistance to metal deposition and coking, and suitability for long-cycle operations. Midstream activities encompass catalyst formulation development, support shaping, active metal loading, drying and calcination, sulfidation/activation, and the design of graded loading schemes. Downstream applications are primarily found in refinery FCC, RFCC, and hydrocracking pretreatment units.

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In 2025, global sales volume is approximately 12,800 metric tons, with a mainstream average ex-factory price of around $14.8/kg; major manufacturers in the industry report gross margins of approximately 32%?50%.

This report studies the global FCC Pretreat Catalysts production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for FCC Pretreat Catalysts 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 FCC Pretreat Catalysts that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global FCC Pretreat Catalysts total production and demand, 2021-2032, (Tons)
Global FCC Pretreat Catalysts total production value, 2021-2032, (USD Million)
Global FCC Pretreat Catalysts production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global FCC Pretreat Catalysts consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: FCC Pretreat Catalysts domestic production, consumption, key domestic manufacturers and share
Global FCC Pretreat Catalysts production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global FCC Pretreat Catalysts production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global FCC Pretreat Catalysts production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global FCC Pretreat Catalysts 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 W. R. Grace (ART Hydroprocessing), Ketjen, Shell Catalysts & Technologies, Topsoe, Axens, Honeywell UOP, JGC Catalysts and Chemicals, Sinopec, CNPC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World FCC Pretreat Catalysts market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/kg) 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 FCC Pretreat Catalysts Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global FCC Pretreat Catalysts Market, Segmentation by Type:

- Demetallization Catalyst
- Hydrodesulfurization Catalyst
- Hydrodenitrogenation Catalyst

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Others

Global FCC Pretreat Catalysts Market, Segmentation by Active Metal System:

CoMo Based

NiMo Based

Others

Global FCC Pretreat Catalysts Market, Segmentation by Application:

Residue

VGO

Other

Companies Profiled:

W. R. Grace (ART Hydroprocessing)

Ketjen

Shell Catalysts & Technologies

Topsoe

Axens

Honeywell UOP

JGC Catalysts and Chemicals

Sinopec

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CNPC

Key Questions Answered:

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

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