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Global Liquid-phase Chloride Removal Adsorbent Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid-phase Chloride Removal Adsorbent market size is expected to reach $ 105 million by 2032, rising at a market growth of 3.9% CAGR during the forecast period (2026-2032).

Liquid-phase Chloride Removal Adsorbents are solid adsorbents loaded into fixed-bed reactors to remove hydrogen chloride and organic chlorides from liquid hydrocarbons. These products primarily utilize modified alumina, zinc oxide, molecular sieves, or composite metal oxides to immobilize chlorine impurities through chemical neutralization, chemisorption, and microporous adsorption. They are mainly used to treat LPG, naphtha, reformate, and aromatics unit feedstocks, thereby mitigating salt deposition, equipment corrosion, and downstream catalyst poisoning.

Upstream raw materials primarily include activated alumina, pseudo-boehmite, zinc oxide, molecular sieves, and composite metal oxides (such as those containing magnesium or calcium), alongside alkaline promoters, binders, pore-forming agents, and extrusion aids. Midstream production processes encompass carrier preparation, mixing or impregnation of active components, shaping (into spheres or extrudates), drying and calcination, screening, and chlorine capacity testing; key quality control parameters include pore structure, basic active sites, particle size, crush strength, and liquid-phase mass transfer performance. Downstream, these agents are primarily deployed in fixed-bed guard systems within refining and petrochemical units for the purification of LPG, naphtha, reformate, and aromatics feedstocks; spent products are typically replaced and disposed of as chlorine-containing industrial solid waste.

Global sales volume is projected to reach approximately 13,000 metric tons in 2025, driven primarily by the periodic replacement of agents in existing units and the

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expansion of refining and petrochemical capacity. Product prices generally range from $5,500 to $7,500 per metric ton, with industry gross margins typically falling between 25% and 38%.

Report Scope

This report studies the global Liquid-phase Chloride Removal Adsorbent production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid-phase Chloride Removal Adsorbent 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 Liquid-phase Chloride Removal Adsorbent that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid-phase Chloride Removal Adsorbent total production and demand, 2021-2032, (Tons)

Global Liquid-phase Chloride Removal Adsorbent total production value, 2021-2032, (USD Million)

Global Liquid-phase Chloride Removal Adsorbent production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Liquid-phase Chloride Removal Adsorbent consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Liquid-phase Chloride Removal Adsorbent domestic production, consumption, key domestic manufacturers and share

Global Liquid-phase Chloride Removal Adsorbent production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

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Global Liquid-phase Chloride Removal Adsorbent production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Liquid-phase Chloride Removal Adsorbent production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Liquid-phase Chloride Removal Adsorbent 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 Honeywell Technologies, Clariant, Axens, BASF, Evonik, Sinopec, Shenyang Sanju Kaite Catalyst, Wuhan Kelin Chemical Group, Rezel Catalysts, Sichuan Shutai Chemical Technology, 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 Liquid-phase Chloride Removal Adsorbent market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) 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 Liquid-phase Chloride Removal Adsorbent Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Liquid-phase Chloride Removal Adsorbent Market, Segmentation by Type:

Alumina-Based

Zinc Oxide-Based

Other

Global Liquid-phase Chloride Removal Adsorbent Market, Segmentation by Target Contaminants:

Inorganic Chloride Removal Adsorbent

Organic Chloride Removal Adsorbent

Global Liquid-phase Chloride Removal Adsorbent Market, Segmentation by Application:

Petroleum Refining

Petrochemicals

Coal Chemicals

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Natural Gas Processing

Others

Companies Profiled:

Honeywell Technologies

Clariant

Axens

BASF

Evonik

Sinopec

Shenyang Sanju Kaite Catalyst

Wuhan Kelin Chemical Group

Rezel Catalysts

Sichuan Shutai Chemical Technology

Key Questions Answered

1. How big is the global Liquid-phase Chloride Removal Adsorbent market?
2. What is the demand of the global Liquid-phase Chloride Removal Adsorbent market?
3. What is the year over year growth of the global Liquid-phase Chloride Removal Adsorbent market?
4. What is the total value of the global Liquid-phase Chloride Removal Adsorbent market?
5. Who are the Major Players in the global Liquid-phase Chloride Removal Adsorbent

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market?
6. What are the growth factors driving the market demand?

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