

Global Gas-Phase Chloride Removal Adsorbent Market Growth 2026-2032

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Abstracts

The global Gas-Phase Chloride Removal Adsorbent market size is predicted to grow from US\$ 131 million in 2025 to US\$ 173 million in 2032; it is expected to grow at a CAGR of 4.0% from 2026 to 2032.

Gas-Phase Chloride Removal Adsorbents are solid chemisorbents loaded into fixed-bed dechlorination vessels to remove hydrogen chloride and organic chlorides from hydrogen-rich gas, synthesis gas, gaseous hydrocarbons, and process off-gases. Through mechanisms such as acid-base neutralization, chemisorption, or ion exchange, these products immobilize chlorine-containing impurities as stable chlorides, thereby protecting downstream catalysts, compressors, and heat exchange equipment while mitigating the risks of corrosion, salt deposition, and fouling.

Upstream raw materials primarily include activated alumina, pseudoboehmite, zinc oxide, zinc salts, molecular sieves, magnesium oxide, and other mixed metal oxides, supplemented by alkali or alkaline-earth metal promoters, binders, and pore-forming agents. Midstream manufacturers formulate, shape, dry, calcine, and screen these materials—based on the target chloride species and operating temperatures—to produce spherical or cylindrical fixed-bed adsorbents. Downstream, these products are primarily deployed in catalytic reforming, isomerization, steam-based hydrogen production, methanol synthesis, and alkane dehydrogenation units for the deep purification of hydrogen-rich gas, synthesis gas, and hydrocarbon gases.

Global sales volume is projected to reach approximately 22,000 metric tons in 2025; product prices typically range from \$4,500 to \$7,500 per metric ton, with leading enterprises achieving gross margins of approximately 25%–35%.

United States market for Gas-Phase Chloride Removal Adsorbent is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Gas-Phase Chloride Removal Adsorbent is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Gas-Phase Chloride Removal Adsorbent is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Gas-Phase Chloride Removal Adsorbent players cover Clariant, Axens, BASF, Honeywell UOP, Topsoe, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Gas-Phase Chloride Removal Adsorbent Industry Forecast" looks at past sales and reviews total world Gas-Phase Chloride Removal Adsorbent sales in 2025, providing a comprehensive analysis by region and market sector of projected Gas-Phase Chloride Removal Adsorbent sales for 2026 through 2032. With Gas-Phase Chloride Removal Adsorbent sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Gas-Phase Chloride Removal Adsorbent industry.

This Insight Report provides a comprehensive analysis of the global Gas-Phase Chloride Removal Adsorbent landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Gas-Phase Chloride Removal Adsorbent portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Gas-Phase Chloride Removal Adsorbent market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gas-Phase Chloride Removal Adsorbent and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly

nuanced view of the current state and future trajectory in the global Gas-Phase Chloride Removal Adsorbent.

This report presents a comprehensive overview, market shares, and growth opportunities of Gas-Phase Chloride Removal Adsorbent market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Alumina Based

Zinc Oxide Based

Alkali Metal Based

Other

Segmentation by Operating Temperature:

Low-Temperature ($\leq 150^{\circ}\text{C}$)

Medium-Temperature ($150\text{--}300^{\circ}\text{C}$)

High-Temperature ($>300^{\circ}\text{C}$)

Segmentation by Application:

Catalytic Reforming Unit

Isomerization Unit

Hydrogen Production Unit

Alkane Dehydrogenation Unit

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Clariant

Axens

BASF

Honeywell UOP

Topsoe

Evonik

Johnson Matthey

Xi'an Origin Chemical Technologies

Shenyang Sanju Kaite Catalyst

Wuhan Kelin Chemical Group

Sichuan Shutai Chemical Technology

Rezel Catalysts Corporation

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gas-Phase Chloride Removal Adsorbent market?

What factors are driving Gas-Phase Chloride Removal Adsorbent market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Gas-Phase Chloride Removal Adsorbent market opportunities vary by end market size?

How does Gas-Phase Chloride Removal Adsorbent break out by Type, by Application?

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