

Global Low-Temperature Chloride Removal Adsorbent Market Growth 2026-2032

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Abstracts

The global Low-Temperature Chloride Removal Adsorbent market size is predicted to grow from US\$ 121 million in 2025 to US\$ 161 million in 2032; it is expected to grow at a CAGR of 4.1% from 2026 to 2032.

Low-Temperature Chloride Removal Adsorbents are solid purification materials used to remove hydrogen chloride, hydrolyzable organic chlorides, and other trace chlorides from gas or liquid hydrocarbon streams under ambient or relatively low-temperature conditions. These products typically utilize activated alumina, activated carbon, or porous oxides as supports, impregnated with alkaline components such as sodium, calcium, magnesium, or zinc. Through chemical reaction, adsorption, and catalytic hydrolysis, they fix chlorine into stable chloride compounds, thereby mitigating the risks of downstream equipment corrosion and catalyst chlorine poisoning.

Upstream raw materials primarily include activated alumina, pseudo-boehmite, activated carbon, and molecular sieves, alongside active components such as sodium oxide, sodium carbonate, calcium oxide, magnesium oxide, and zinc oxide. Binders, pore-forming agents, and molding aids are also required to optimize pore structure, compressive strength, and water resistance. Raw material purity, the dispersion of alkaline components, pore volume, and mechanical strength directly influence dechlorination precision, working chlorine capacity, and service life. Downstream applications primarily involve purification units for natural gas, syngas, hydrogen, liquefied petroleum gas (LPG), propylene, naphtha, and reformat; these agents serve as guard beds positioned upstream of reforming catalysts, hydrogenation catalysts, low-temperature shift catalysts, methanol synthesis catalysts, and molecular sieve adsorbents.

Global sales volume in 2025 is estimated at approximately 20,000 metric tons, with a comprehensive average price of roughly US\$5,000–7,000 per ton. The industry's gross profit margin ranges from approximately 25% to 38%.

United States market for Low-Temperature 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 Low-Temperature 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 Low-Temperature 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 Low-Temperature Chloride Removal Adsorbent players cover Clariant, Honeywell Technologies, Axens, BASF, UNICAT Catalyst Technologies, 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 “Low-Temperature Chloride Removal Adsorbent Industry Forecast” looks at past sales and reviews total world Low-Temperature Chloride Removal Adsorbent sales in 2025, providing a comprehensive analysis by region and market sector of projected Low-Temperature Chloride Removal Adsorbent sales for 2026 through 2032. With Low-Temperature 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 Low-Temperature Chloride Removal Adsorbent industry.

This Insight Report provides a comprehensive analysis of the global Low-Temperature 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 Low-Temperature 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 Low-Temperature Chloride Removal Adsorbent market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-Temperature 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 Low-Temperature Chloride Removal Adsorbent.

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

Market Segmentation

Segmentation by Type:

Sodium-Based

Calcium-Based

Copper-Based

Segmentation by Target Contaminants:

Inorganic Chloride Removal Adsorbent

Organic Chloride Removal Adsorbent

Segmentation by Application:

Catalytic Reforming

Alkane Dehydrogenation

Refinery Hydrogen Production

Syngas Purification

Other

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

Honeywell Technologies

Axens

BASF

UNICAT Catalyst Technologies

Topsoe

Evonik

Wuhan Kelin Chemical Group

Shenyang Sanjukaite Catalyst

Shandong Xunda Chemical Group

Xi'an Origin Chemical Technology

Southwest Research & Design Institute of Chemical Industry

Sichuan Shutai Chemical Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low-Temperature Chloride Removal Adsorbent market?

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

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

How do Low-Temperature Chloride Removal Adsorbent market opportunities vary by end market size?

How does Low-Temperature Chloride Removal Adsorbent break out by Type, by Application?

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