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Global Low-Temperature Chloride Removal Adsorbent Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-Temperature Chloride Removal Adsorbent market size is expected to reach $ 167 million by 2032, rising at a market growth of 3.9% CAGR during the forecast period (2026-2032).

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 reformate; these agents serve as guard beds positioned upstream of reforming catalysts, hydrogenation catalysts, low-temperature shift catalysts, methanol synthesis catalysts, and molecular sieve adsorbents.

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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%.

Report Scope

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

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

Highlights and key features of the study

Global Low-Temperature Chloride Removal Adsorbent total production and demand, 2021-2032, (Tons)

Global Low-Temperature Chloride Removal Adsorbent total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Low-Temperature 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 Clariant, Honeywell Technologies, Axens, BASF, UNICAT Catalyst Technologies, Topsoe, Evonik, Wuhan Kelin Chemical Group, Shenyang Sanjukaite Catalyst, Shandong Xunda Chemical Group, 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 Low-Temperature 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 Low-Temperature Chloride Removal Adsorbent Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Low-Temperature Chloride Removal Adsorbent Market, Segmentation by Type:

Sodium-Based

Calcium-Based

Copper-Based

Global Low-Temperature Chloride Removal Adsorbent Market, Segmentation by Target Contaminants:

Inorganic Chloride Removal Adsorbent

Organic Chloride Removal Adsorbent

Global Low-Temperature Chloride Removal Adsorbent Market, Segmentation by Application:

Catalytic Reforming

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Alkane Dehydrogenation

Refinery Hydrogen Production

Syngas Purification

Other

Companies Profiled:

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

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Key Questions Answered

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

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