

Global 13X Molecular Sieve Adsorbent Market Growth 2026-2032

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Abstracts

The global 13X Molecular Sieve Adsorbent market size is predicted to grow from US\$ 207 million in 2025 to US\$ 267 million in 2032; it is expected to grow at a CAGR of 3.8% from 2026 to 2032.

13X Molecular Sieve Adsorbent is a sodium-form X-type zeolite adsorbent with a faujasite crystal structure and an effective pore opening of about 9?10 ?; its core function is to selectively adsorb water, carbon dioxide, hydrogen sulfide, mercaptans, ammonia, larger polar molecules and selected hydrocarbons from gas or liquid streams. 13X has large pore opening and broader adsorption window, which makes it suitable for removing CO₂ and H₂O in air separation prepurification, purifying natural gas and hydrocarbon streams, drying industrial gases, and serving as a carrier or moisture scavenger in specialty formulations.

The upstream chain starts with sodium silicate, alumina or aluminum hydroxide, caustic soda, zeolite synthesis, crystallization, washing, ion adjustment, binder addition, bead or pellet forming, drying, calcination or activation, screening, dust control, packaging and quality testing. Industrial buyers focus on pore size, CO₂ capacity, static water adsorption, bulk density, crush strength, attrition rate, particle-size distribution, residual moisture, regeneration temperature, cycle stability, pressure drop and impurity management. Downstream customers include industrial gas companies, cryogenic air separation plants, PSA oxygen unit builders, natural gas processors, LNG/NGL plants, refineries, petrochemical units, hydrogen purification systems, coatings and sealant formulators, and catalyst producers. Procurement is usually handled through process licensor specifications, annual qualified-supplier frameworks, repeat B2B purchase orders, plant turnaround replacement cycles, engineering package approvals and customer trials for new adsorber beds. A normalized gross margin of about 27.0% is

appropriate for this product. The barrier is higher than commodity desiccants because 13X requires controlled zeolite crystallization, activation, mechanical strength, low dust, reliable regeneration and application know-how, but lower than complete PSA or ASU systems because most system engineering value sits downstream.

In the current market, global production is around 80 k t, with an average selling price of about 2,650 USD per t EXW basis. Top 5 suppliers control approximately 43% of global revenue CR5. Demand is concentrated in China, North America, Europe, Japan, South Korea, India and the Middle East, with China increasingly important both as a producer and as a demand center for industrial gases, petrochemicals and PSA oxygen systems. Growth from 2026 to 2032 should be supported by new air separation capacity, medical and industrial oxygen demand, hydrogen purification, LNG and natural gas treatment, refinery and petrochemical reliability, CO₂ removal, and stricter gas quality requirements. Technical development will focus on higher CO₂ working capacity, faster adsorption kinetics, lower attrition, lower dust, longer cycle life, lower regeneration energy and customized multilayer adsorbent beds. AI is more likely to affect bed monitoring, breakthrough prediction, quality control and plant optimization than the material chemistry itself. The main bottlenecks are energy-intensive calcination, sodium silicate and alumina input costs, binder and forming consistency, qualification cycles in process plants, dust control during loading, and the need to prove stable performance across hundreds of adsorption-regeneration cycles.

LP Information, Inc. (LPI) ' newest research report, the "13X Molecular Sieve Adsorbent Industry Forecast" looks at past sales and reviews total world 13X Molecular Sieve Adsorbent sales in 2025, providing a comprehensive analysis by region and market sector of projected 13X Molecular Sieve Adsorbent sales for 2026 through 2032. With 13X Molecular Sieve Adsorbent sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 13X Molecular Sieve Adsorbent industry.

This Insight Report provides a comprehensive analysis of the global 13X Molecular Sieve 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 13X Molecular Sieve Adsorbent portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 13X Molecular Sieve Adsorbent market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for 13X Molecular Sieve 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 13X Molecular Sieve Adsorbent.

This report presents a comprehensive overview, market shares, and growth opportunities of 13X Molecular Sieve Adsorbent market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Beads

Pellets

Others

Segmentation by Supply Purpose:

Bulk Process Adsorbent

PSA Adsorbent

TSA Adsorbent

Segmentation by Channel:

Dehydration Adsorbents

Molecular Separation Adsorbents

Purification Adsorbents

Ion Exchange Adsorbents

Clarification Adsorbents

Segmentation by Application:

Air Separation Prepurification

Oxygen PSA

Natural Gas Purification

Refining & Petrochemicals

Industrial Gas Drying

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.

Honeywell UOP

BASF

Arkema

W. R. Grace

Zeochem

Tosoh

Chemiewerk Bad K^ostritz

Sorchem India

Luoyang Jalon Micro-nano New Materials

Dalian Haixin Chemical

Shanghai Hengye Microcrystalline Materials Technology

Zhengzhou Fulong New Materials Technology

Jiangxi Xintao Technology

Zhengzhou Xueshan Industrial

Henan Huanyu Molecular Sieve

Anhui Mingmei Minchem

Shanghai Zeolite Molecular Sieve

Shanghai Lvqiang New Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global 13X Molecular Sieve Adsorbent market?

What factors are driving 13X Molecular Sieve Adsorbent market growth, globally and by region?

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

How do 13X Molecular Sieve Adsorbent market opportunities vary by end market size?

How does 13X Molecular Sieve Adsorbent break out by Type, by Application?

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