

Global 13X Molecular Sieve Adsorbent Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 13X Molecular Sieve Adsorbent market size is expected to reach \$ 277 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032).

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 Å; 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.

This report studies the global 13X Molecular Sieve Adsorbent production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 13X Molecular Sieve 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 13X Molecular Sieve Adsorbent that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 13X Molecular Sieve Adsorbent total production and demand, 2021-2032, (Kiloton)

Global 13X Molecular Sieve Adsorbent total production value, 2021-2032, (USD Million)

Global 13X Molecular Sieve Adsorbent production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton), (based on production site)

Global 13X Molecular Sieve Adsorbent consumption by region & country, CAGR, 2021-2032 & (Kiloton)

U.S. VS China: 13X Molecular Sieve Adsorbent domestic production, consumption, key domestic manufacturers and share

Global 13X Molecular Sieve Adsorbent production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kiloton)

Global 13X Molecular Sieve Adsorbent production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

Global 13X Molecular Sieve Adsorbent production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

This report profiles key players in the global 13X Molecular Sieve 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 UOP, BASF, Arkema, W. R. Grace, Zeochem, Tosoh, Chemiewerk Bad K^ostritz, Sorchem India, Luoyang Jalon Micro-nano New Materials, Dalian Haixin Chemical, 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 13X Molecular Sieve Adsorbent market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kiloton) 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 13X Molecular Sieve Adsorbent Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 13X Molecular Sieve Adsorbent Market, Segmentation by Type:

Beads

Pellets

Others

Global 13X Molecular Sieve Adsorbent Market, Segmentation by Supply Purpose:

Bulk Process Adsorbent

PSA Adsorbent

TSA Adsorbent

Global 13X Molecular Sieve Adsorbent Market, Segmentation by Channel:

Dehydration Adsorbents

Molecular Separation Adsorbents

Purification Adsorbents

Ion Exchange Adsorbents

Clarification Adsorbents

Global 13X Molecular Sieve Adsorbent Market, Segmentation by Application:

Air Separation Prepurification

Oxygen PSA

Natural Gas Purification

Refining & Petrochemicals

Industrial Gas Drying

Others

Companies Profiled:

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 Answered:

1. How big is the global 13X Molecular Sieve Adsorbent market?
2. What is the demand of the global 13X Molecular Sieve Adsorbent market?
3. What is the year over year growth of the global 13X Molecular Sieve Adsorbent market?
4. What is the production and production value of the global 13X Molecular Sieve Adsorbent market?
5. Who are the key producers in the global 13X Molecular Sieve Adsorbent market?
6. What are the growth factors driving the market demand?

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