

Global Carbon Molecular Sieves (CMS) Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Carbon Molecular Sieves (CMS) market size will reach 198.42 Million USD in 2025 and is projected to reach 300.72 Million USD by 2032, with a CAGR of 6.12% (2025-2032). Notably, the China Carbon Molecular Sieves (CMS) market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Carbon molecular sieves (CMS) are porous materials composed of carbon atoms arranged in a three-dimensional network. They possess a highly ordered and controlled pore structure, allowing for the selective adsorption and separation of gases and liquids based on their molecular size and polarity. CMS materials are typically derived from carbonaceous precursors, such as coal, coconut shell, or polymeric materials, through processes like carbonization and activation. The resulting carbon structure has micropores that can selectively adsorb smaller molecules while excluding larger ones. This unique property makes CMS ideal for gas separation applications, such as the purification of nitrogen, oxygen, and hydrogen, as well as the removal of contaminants from various gas streams. CMS materials find utility in diverse industries, including gas production, petrochemicals, air separation, and environmental remediation, where precise gas separation and purification are essential for process efficiency and environmental sustainability.

The major global manufacturers of Carbon Molecular Sieves (CMS) include Osaka Gas

Chemical, Kuraray, Zhejiang Changxing Haihua Chemical, Changxing ShanLi Chemical Materials, Huzhou Qiangda Molecular Sieve Technology, China Carbon Molecular Sieve Co., Huzhou Minqiang Carbon Industry, Guangde Shibo, Weihai Huatai Molecular Sieve, Shanghai Jiuzhou Chemical, Hotek Chemical Technology, Air Water Bellpearl, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Carbon Molecular Sieves (CMS). Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Carbon Molecular Sieves (CMS) market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Carbon Molecular Sieves (CMS) market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Carbon Molecular Sieves (CMS) industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Carbon Molecular Sieves (CMS) Include:

Osaka Gas Chemical

Kuraray

Zhejiang Changxing Haihua Chemical

Changxing ShanLi Chemical Materials

Huzhou Qiangda Molecular Sieve Technology

China Carbon Molecular Sieve Co.

Huzhou Minqiang Carbon Industry

Guangde Shibo

Weihai Huatai Molecular Sieve

Shanghai Jiuzhou Chemical

Hotek Chemical Technology

Air Water Bellpearl

Carbon Molecular Sieves (CMS) Product Segment Include:

CMS-260

CMS-240

CMS-220

CMS-330

Other

Carbon Molecular Sieves (CMS) Product Application Include:

Nitrogen Pressure Swing Adsorption (PSA) System

Biogas Updating

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Carbon Molecular Sieves (CMS) Capacity and Production Analysis

Chapter 3: Global Carbon Molecular Sieves (CMS) Industry PESTEL Analysis

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