

Global Adsorbent Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Adsorbent market size was valued at US\$ 2444 million in 2024 and is forecast to a readjusted size of USD 3249 million by 2031 with a CAGR of 4.2% during review period.

An adsorbent is a material that can attract and hold molecules of a substance (such as gases, liquids, or solutes) on its surface through the process of adsorption. This material typically has a high surface area and is used in a variety of applications, including purification, separation, drying, and catalysis.

The molecular sieve segment is witnessing robust growth due to its versatility and efficiency in removing impurities. Its use in natural gas processing, air separation, and petrochemical applications continues to expand as industries strive for higher purity levels in gases and liquids. Innovations in pore size customization and regeneration technology are enhancing their efficiency, driving demand further. Additionally, the growing adoption of molecular sieves in the healthcare sector, particularly in oxygen concentrators, highlights their critical role in emerging markets.

Activated alumina is gaining traction due to its excellent moisture adsorption and fluoride removal capabilities. Its use in water treatment systems is growing as governments worldwide focus on safe drinking water initiatives. In addition, its role as a catalyst support material in refining and petrochemical processes is vital for efficiency improvement and sustainability. With increasing environmental regulations, industries are adopting activated alumina to meet compliance, particularly for drying and desulfurization applications in emissions control systems.

Chloride and sulphur guard adsorbents are experiencing increased demand due to their

essential role in refining and natural gas purification. As clean energy adoption rises, these adsorbents help remove harmful contaminants like hydrogen sulfide and chloride ions, protecting equipment and ensuring product quality. The shift toward cleaner fuel production, such as ultra-low sulfur diesel and liquefied natural gas (LNG), is driving their market growth. Advances in adsorbent materials to improve efficiency and lifespan are further supporting their adoption across diverse applications.

This report is a detailed and comprehensive analysis for global Adsorbent market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Adsorbent market size and forecasts, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2020-2031

Global Adsorbent market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2020-2031

Global Adsorbent market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2020-2031

Global Adsorbent market shares of main players, shipments in revenue (\$ Million), sales quantity (K MT), and ASP (USD/MT), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Adsorbent

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Adsorbent market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include UOP, Arkema, Tosoh, W.R. Grace, BASF, Axens, Topsoe, Huber, Zeochem, Evonik, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Adsorbent market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Molecular Sieve

Activated Alumina

Chloride Guard

Sulphur Guard

Other

Market segment by Application

Petroleum Refining

Petrochemicals

Air Separation

Refrigerants

Natural Gas

Insulating Glass

Other

Major players covered

UOP

Arkema

Tosoh

W.R. Grace

BASF

Axens

Topsoe

Huber

Zeochem

Evonik

Chemiewerk Bad K[?]stritz GmbH

KNT Group

CHALCO

Luoyang Jianlong Chemical

Haixin Chemical

Shanghai Hengye

Shanghai Lvqiang New Material

Jiangsu Jingjing New Material

Jiangsu Sanji

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Adsorbent product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Adsorbent, with price, sales quantity, revenue, and global market share of Adsorbent from 2020 to 2025.

Chapter 3, the Adsorbent competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Adsorbent breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Adsorbent market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Adsorbent.

Chapter 14 and 15, to describe Adsorbent sales channel, distributors, customers, research findings and conclusion.

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