

# **Activated Alumina Market Report by Application (Catalysts, Desiccant, Absorbent, and Others), End-Use Industry (Water Treatment, Pharmaceutical, Textile, Oil & Gas, Chemical, and Others), Form (Powder, Beads), Mesh Size (80-150 Mesh, 150-300 Mesh, Above 300 Mesh), and Region 2024-2032**

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## **Abstracts**

The global activated alumina market size reached US\$ 1,054.8 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1,543.4 Million by 2032, exhibiting a growth rate (CAGR) of 4.2% during 2024-2032. The increasing water purification needs, demand for purified gases, versatility in chemical processes, adaptability as an absorbent, and suitability for specialized applications such as chromatography, are some of the major factors propelling the market.

Activated alumina is a porous and highly adsorbent material derived from aluminum oxide. It is produced through a controlled process that creates a large surface area with numerous microscopic pores. This unique structure gives activated alumina exceptional adsorption capabilities, making it widely used for purification, dehydration, and filtration applications in various industries. It effectively removes contaminants such as moisture, volatile organic compounds (VOCs), and impurities from liquids and gases. Besides this, activated alumina finds extensive use in drying processes, gas refining, water treatment, and catalyst support due to its high surface area and tailored surface properties that enable targeted interactions with specific molecules.

The rising need for water purification solutions in both municipal and industrial sectors has led to heightened adoption of activated alumina due to its exceptional adsorption properties, effectively removing contaminants such as fluoride, arsenic, and other

impurities from water sources. This represents the key factor impelling the growth of the global activated alumina market. Furthermore, the expanding demand for clean and safe gases in industries, such as petrochemicals, healthcare, and electronics, is propelling the market forward as activated alumina is utilized for drying and purifying gases. Moreover, widespread product application as catalyst support in various chemical processes is aiding in market expansion. Additionally, the surge in manufacturing activities and infrastructure development in emerging economies is boosting the demand for activated alumina in applications such as chromatography, which, in turn, is creating a positive outlook for market growth. Apart from this, the increasing environmental regulations and a focus on sustainable solutions are fueling the adoption of activated alumina.

#### Activated Alumina Market Trends/Drivers:

##### Water purification and treatment needs

One of the key drivers of the activated alumina market is the escalating demand for effective water purification solutions. As concerns over water quality and safety intensify, the use of activated alumina as an adsorbent material in municipal water supplies and various industrial processes has gained prominence, strengthening the market growth. In addition to this, activated alumina's ability to efficiently remove contaminants such as fluoride, arsenic, and heavy metals from water sources has made it a preferred choice for water treatment applications. This factor is particularly critical in regions grappling with high levels of naturally occurring or anthropogenic pollutants in their water systems.

##### Gas drying and purification requirements

The increasing need for high-purity gases in various industries is acting as another growth-inducing factor. Numerous industrial verticals, such as petrochemicals, electronics manufacturing, pharmaceuticals, and healthcare, rely on purified gases to ensure product quality and process efficiency. Activated alumina's excellent adsorption properties make it an ideal choice for removing moisture and other impurities from gases, contributing to the overall reliability and effectiveness of gas-related processes. This demand for purified gases is spurred by the escalating need to meet stringent quality standards and regulatory requirements.

##### Catalyst support and chemical processes

The versatility of activated alumina extends to its application as catalyst support in

numerous chemical processes. Catalysts play a pivotal role in facilitating and accelerating chemical reactions and activated alumina's high surface area and tailored surface properties make it a valuable substrate for catalyst deposition. Industries such as petrochemicals, refining, and speciality chemicals benefit from the use of activated alumina as catalyst support to enhance process efficiency, product yield, and selectivity. The continued growth of these industries, coupled with the ongoing demand for optimized chemical processes, further contributes to the expansion of the activated alumina market.

#### Activated Alumina Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global activated alumina market report, along with forecasts at the global, regional and country levels for 2024-2032. Our report has categorized the market based on application, end-use industry, form, and mesh size.

#### Breakup by Application:

Catalysts

Desiccant

Absorbent

Others

Absorbent dominates the market

The report has provided a detailed breakup and analysis of the market based on the application. This includes catalysts, desiccants, absorbents, and others. According to the report, absorbent represented the largest segment.

The increasing use of activated alumina as an absorbent due to its compatibility with various substances and precise adsorption through tailored surface modifications is creating a positive outlook for market expansion. Moreover, its application as an absorbent extends to diverse sectors, such as air separation units, natural gas processing, and the removal of volatile organic compounds (VOCs) from industrial emissions. This adaptability, coupled with its ability to maintain performance in harsh operating conditions, is fueling the demand for activated alumina's as a versatile and effective absorbent material across various specialized applications.

#### Breakup by End-Use Industry:

Water Treatment

Pharmaceutical

Textile  
Oil & Gas  
Chemical  
Others

Oil and gas holds the largest share in the market

A detailed breakup and analysis of the market based on the end-use industry have also been provided in the report. This includes water treatment, pharmaceutical, textile, oil & gas, chemical, and others. According to the report, oil and gas accounted for the largest market share.

The widespread demand for activated alumina within the thriving oil and gas industry, primarily driven by its pivotal role in enhancing the efficiency of natural gas processing, is strengthening the market growth. Besides this, activated alumina's exceptional adsorption capacity for moisture and impurities makes it an indispensable component in dehydration units, ensuring the removal of water vapor from natural gas streams. Additionally, its utilization for sulfur removal from liquid hydrocarbons, particularly in liquefied natural gas (LNG) production, is gaining significance due to stringent sulfur content regulations, thereby bolstering the market growth. Furthermore, activated alumina's durability under high-pressure and high-temperature conditions contributes to its escalating demand in the oil and gas sector.

Breakup by Form:

Powder  
Beads

Beads dominate the market

The report has provided a detailed breakup and analysis of the market based on the form. This includes powder and beads. According to the report, beads represented the largest segment.

The growing demand for activated alumina beads due to their suitability for specialized applications, such as chromatography, is acting as a significant growth-inducing factor. These beads offer a large surface area and controlled pore structure, making them ideal for selective adsorption and separation of compounds in analytical and purification processes. Concurrent with this, their adaptability to fine-tuning and customization in

chromatographic applications, combined with their stability and consistent performance, is propelling their adoption in various industries, including pharmaceuticals, biotechnology, and environmental monitoring.

#### Breakup by Mesh Size:

80-150 Mesh

150-300 Mesh

Above 300 Mesh

A detailed breakup and analysis of the market based on the mesh size has also been provided in the report. This includes 80-150, 150-300, and above 300 mesh.

The growing demand for activated alumina mesh in air drying applications is positively impacting the market growth. The diverse mesh sizes cater to specific moisture removal needs across industries such as compressed air systems, electronics manufacturing, and pharmaceuticals. The mesh structure ensures a balanced combination of surface area and airflow, enabling efficient moisture adsorption while minimizing pressure drop. As industries prioritize moisture control to prevent corrosion, equipment damage, and product contamination, the versatility of activated alumina mesh in addressing varying drying requirements is a key factor driving its demand.

#### Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

Asia Pacific exhibits a clear dominance, accounting for the largest activated alumina market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific accounted for the largest market share.

Rapid industrialization and urbanization across the Asia Pacific region are driving the demand for clean water and purified gases, creating a significant need for effective water treatment and gas drying solutions. Besides this, the region's burgeoning manufacturing sector, particularly in electronics and petrochemicals, requires high-purity gases for production processes, thus bolstering the demand for activated alumina's adsorption capabilities. Additionally, stringent environmental regulations in countries like China and India are pushing industries to adopt advanced technologies for pollution control and waste reduction, which, in turn, is accentuating the demand for activated alumina in applications such as emissions control. As the Asia Pacific region continues its economic expansion and infrastructure development, the activated alumina market is witnessing robust expansion.

#### Competitive Landscape:

The competitive landscape of the global activated alumina market is characterized by the presence of several established manufacturers and suppliers striving to capture market share through innovation, strategic collaborations, and product differentiation. Companies are focusing on developing advanced activated alumina products with enhanced adsorption capabilities tailored for specific applications across industries such as water treatment, gas purification, and catalysis. Key players are also investing in research and development (R&D) to optimize production processes and improve the

overall performance of their offerings. Market participants are increasingly emphasizing sustainable practices, integrating eco-friendly production methods and materials into their processes to meet the rising need for ecologically responsible solutions. Geographical expansion and distribution networks are pivotal strategies, allowing companies to penetrate emerging markets and cater to diverse customer needs.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

AGC Chemicals Pvt. Ltd.

Axens

BASF SE

Dynamic Adsorbents Inc.

Honeywell International Inc.

Huber Engineered Materials

Jiangxi Sanxin Hi-Tech Ceramics Co. Ltd.

Porocel Industries

Shandong Zhongxin New Material Technology Co. Ltd.

Sialca Industries

Sorbead India

Sumitomo Chemical Co. Ltd.

#### Recent Developments:

In October 2023, Axens announced Asset Sale Agreement (ASA) with Rio Tinto Alcan of Canada, acquiring their activated alumina business in Brockville, Ontario.

In September 2020, BASF SE introduced a range of novel selective hydrogenation catalysts, including palladium alumina catalysts designed to exhibit strong resistance against sulfur impurities.

#### Key Questions Answered in This Report

1. How big is the global activated alumina market?
2. What is the expected growth rate of the global activated alumina market during 2024-2032?
3. What are the key factors driving the global activated alumina market?
4. What has been the impact of COVID-19 on the global activated alumina market?
5. What is the breakup of the global activated alumina market based on the application?
6. What is the breakup of the global activated alumina market based on the end-use

industry?

7. What is the breakup of the global activated alumina market based on the form?
8. What are the key regions in the global activated alumina market?
9. Who are the key players/companies in the global activated alumina market?



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