

Activated Alumina Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024–2032

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Abstracts

The Global Activated Alumina Market, valued at USD 194.3 million in 2023, is projected to grow at a CAGR of 8.2% from 2024 to 2032. Rising oil and gas production, alongside expanded exploration activities worldwide, is anticipated to drive demand for activated alumina throughout the forecast period. Increasing fuel needs from key sectors encourage production and supply in the oil and gas industry, where activated alumina's unique properties make it invaluable. Its ability to absorb liquids and gases without altering its structure allows it to purify gas mixtures through selective adsorption. Additionally, desiccant for water adsorption, essential in natural gas processing and desulfurization processes is very crucial.

Demand for activated alumina is also rising in the water treatment sector due to its effectiveness in removing impurities and contaminants. This growth is fueled by the global need for clean water solutions as health-conscious consumers seek advanced filtration. Activated alumina's utility in water purification includes the removal of fluoride and other harmful substances, ensuring safer water supplies. The chemical industry's expansion propels the need for high-performance adsorbents, like activated alumina, across various applications, from catalysis to chemical processing.

This demand is also driven by advancements in chemical production techniques, which increasingly require efficient adsorption solutions to enhance performance and product quality. The adsorbents segment, expected to reach USD 136.7 million by 2032 with a CAGR of 8.7%, reflects activated alumina's versatility across both liquid and gas applications. Widely used for separating components from different media, it is an ideal choice in industries where adsorption is critical. The activated alumina market from the water treatment application segment held a 33.2% share in 2023 amounting to USD 64.5 million and is set to grow at an 8.7% CAGR through 2032. With rising consumer demand for clean water and heightened regulatory focus on water safety, treatment

facilities are adopting activated alumina, leveraging its superior adsorption properties for effective water purification.

The U.S.-activated alumina market is forecasted to achieve USD 82.7 million by 2032, growing at a 7.2% CAGR. The U.S. market is supported by rising demand across sectors like water treatment, oil and gas, and pharmaceuticals. This growth is accompanied by a greater focus on sustainable practices, as manufacturers emphasize environmentally friendly processes and responsible sourcing of raw materials. Technological advancements in activated alumina production enhance product efficiency, further solidifying its position as a preferred solution across these industries.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definition
- 1.2 Base estimates & calculations
- 1.3 Forecast calculation
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021-2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Industry ecosystem analysis
 - 3.2.1 Factor affecting the value chain
 - 3.2.2 Profit margin analysis
 - 3.2.3 Disruptions
 - 3.2.4 Future outlook
 - 3.2.5 Manufacturers
 - 3.2.6 Distributors
- 3.3 Supplier landscape
- 3.4 Profit margin analysis
- 3.5 Key news & initiatives
- 3.6 Regulatory landscape
- 3.7 Impact forces
- 3.8 Industry impact forces
 - 3.8.1 Growth drivers
 - 3.8.1.1 Rising product consumption in water treatment industry
 - 3.8.1.2 Increasing oil gas exploration activities
 - 3.8.1.3 Development in global chemical industry

- 3.8.2 Market challenges
 - 3.8.2.1 Volatile raw material prices
- 3.9 Regulations & market impact
- 3.10 Porter's analysis
- 3.11 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

- 4.1 Company market share analysis
- 4.2 Competitive positioning matrix
- 4.3 Strategic outlook matrix

CHAPTER 5 MARKET SIZE AND FORECAST, BY APPLICATION, 2021-2032 (USD MILLION) (TONS)

- 5.1 Key trends
- 5.2 Adsorbents
- 5.3 Desiccant
- 5.4 Catalysts
- 5.5 Others

CHAPTER 6 MARKET SIZE AND FORECAST, BY SECTOR, 2021-2032 (USD MILLION) (TONS)

- 6.1 Key trends
- 6.2 Water treatment
- 6.3 Oil & gas
- 6.4 Chemical
- 6.5 Others

CHAPTER 7 MARKET SIZE AND FORECAST, BY REGION, 2021-2032 (USD MILLION) (TONS)

- 7.1 Key trends
- 7.2 North America
 - 7.2.1 U.S.
 - 7.2.2 Canada
- 7.3 Europe
 - 7.3.1 Germany

- 7.3.2 UK
- 7.3.3 France
- 7.3.4 Italy
- 7.3.5 Spain
- 7.3.6 Russia
- 7.4 Asia Pacific
 - 7.4.1 China
 - 7.4.2 India
 - 7.4.3 Japan
 - 7.4.4 South Korea
 - 7.4.5 Australia
- 7.5 Latin America
 - 7.5.1 Brazil
 - 7.5.2 Mexico
- 7.6 MEA
 - 7.6.1 South Africa
 - 7.6.2 Saudi Arabia
 - 7.6.3 UAE

CHAPTER 8 COMPANY PROFILES

- 8.1 Axens
- 8.2 BASF SE
- 8.3 Camfil
- 8.4 CHALCO Shandong Advanced Material Co. Ltd.
- 8.5 DYNAMIC Adsorbents Inc.
- 8.6 Global Adsorbents Private Limited
- 8.7 Huber Engineered Materials
- 8.8 Honeywell International Inc.
- 8.9 Jiangsu Jingjing New Material Co. Ltd.
- 8.10 Porocel Industries LLC
- 8.11 Shandong Zhongxin New Material Technology Co. Ltd.
- 8.12 Shandong Advanced Material Co. Ltd.
- 8.13 Sorbead India
- 8.14 Sumitomo Chemical Co. Ltd.

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