

# **Global Activated Alumina Market Size study & Forecast, by End-use (Water Treatment, Oil & Gas, Plastics, Healthcare, Others), By Application (Catalyst, Desiccant, Fluoride Adsorbent, Bio Ceramics), and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Activated Alumina Market is valued approximately at USD 1.10 billion in 2022 and is anticipated to grow with a growth rate of more than 5.9 % over the forecast period 2023-2030. Activated alumina is widely recognized as an exceptional desiccant, offering a plethora of advantageous properties such as high crush strength, resistance to chemical attacks and thermal shock resilience, rendering it highly suitable for various industrial processes. Its extensive surface area and remarkable porosity position activated alumina as a versatile adsorbent, driving its utilization across a wide array of applications. The market growth is driven by key factors such as rising demand for clean water, increasing population, rapid economic growth, increased Demand from Oil and Gas Industry.

The demand for activated alumina is heavily influenced by its role as an essential adsorbent within the oil and gas industry. Specifically, in this sector, activated alumina finds widespread use in the removal of water from natural gas streams, a critical process in gas purification. With natural gas emerging as the fastest-growing source of domestic energy production, the establishment of new refinery projects becomes pivotal, driving segment growth. Particularly, China stands out as a major player in global oil production, with state-owned enterprises such as the China National Offshore Oil Corp. (CNOOC) dominating the industry. CNOOC's ambitious plans for oil and gas production, projected to increase by over 6% annually from 2022 to 2024, underscore its significance in ensuring China's energy security. Meanwhile, in India, the government has implemented various initiatives to meet escalating oil and gas demands, including

allowing 100% foreign direct investment (FDI) in several industry segments. Projections from the International Energy Agency indicate a steady rise in global oil demand, reaching 104.1 million barrels per day (mb/d) by 2026, with China and India contributing substantially to this growth. Considering these factors, the activated alumina market is poised for significant expansion in the foreseeable future. However, availability of activated alumina substitute stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Activated Alumina Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia-Pacific is leading the market growth of the activated alumina, both in terms of revenue growth and market share. This dominance is attributed to the region's significant refining capacities and the escalating demand for fresh water supply. Moreover, the surge in government investment in water treatment technologies and infrastructure, alongside the increasing demand for gas, is anticipated to fuel further market expansion in Asia-Pacific. Conversely, North America is forecast to witness the fastest growing region during the forecast period from 2023 to 2030. This growth trajectory is propelled by the expanding production and refinery expansion initiatives within the region.

Major market player included in this report are:

Shandong Zhongxin New Material Technology Co., Ltd.

BASF SE

Honeywell International Inc.

Sumitomo Chemical Co., Ltd.

Axens

Agc Chemicals Pvt. Ltd.

Sorbead India

Luoyang Xinghua Chemical Co., Ltd.

Sialca Industries

## Shayan Corporation

### Recent Developments in the Market:

In October 2021, Shell plc and BASF SE forged a collaborative partnership aimed at assessing, mitigating risks associated with, and deploying BASF's Sorbead adsorption technology. Distinguished by its aluminosilicate gel material, Sorbead offers distinct advantages over conventional options like activated alumina or molecular sieves. Notably, Sorbead boasts lower temperature regeneration capabilities and demonstrates resilience against acids and water. Furthermore, the Sorbead adsorption technology ensures compliance with rigorous pipeline and underground storage regulations, ensuring the treated gas meets stringent glycol-free quality standards.

In February 2023, Evonik unveiled plans to expand its fumed aluminium oxide production facility in Yokkaichi, Japan. This expansion marks Evonik's inaugural alumina plant in Asia, with a dedicated focus on developing solutions for lithium-ion battery technology, widely utilized in electric vehicle batteries. The facility is slated to commence operations by 2025.

In October 2022, Axens inked an Asset Sale Agreement (ASA) with Rio Tinto Alcan, based in Canada, pertaining to the sale of Rio Tinto Alcan's activated alumina business located in Brockville, Ontario, Canada. This strategic move is poised to unlock growth opportunities in emerging markets globally.

### Global Activated Alumina Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – End-use, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By End-use:

Water Treatment

Oil & gas

Plastics

Healthcare

Other

By Application:

Catalyst

Desiccant

Fluoride Adsorbent

Bio Ceramics

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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