

Global Alumina-based Mercury Removal Adsorbent Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Alumina-based Mercury Removal Adsorbent market size was valued at US\$ 64.82 million in 2025 and is forecast to a readjusted size of US\$ 87.52 million by 2032 with a CAGR of 4.4% during review period.

Alumina-based mercury removal agents are fixed-bed adsorbents that utilize porous activated alumina as a carrier, incorporating active phases such as metal oxides, copper sulfides, or other metal sulfides. As mercury-laden gas or liquid hydrocarbons enter the pore channels, elemental mercury undergoes an irreversible reaction with the active components, becoming immobilized as stable mercury compounds, thereby achieving the deep removal of trace mercury.

Upstream raw materials primarily include aluminum hydroxide, pseudo-boehmite, and activated alumina powder; pseudo-boehmite serves as the core carrier material for achieving high specific surface area, optimal pore size, and mechanical strength. Raw materials for active components mainly include copper salts, other metal salts, and sulfurizing agents, while binders, pore-forming agents, and shaping aids are also utilized during production. Midstream processing involves steps such as kneading, pelletizing (spherical shaping), drying, calcination, metal component loading (or co-forming), pre-sulfurization, and screening; key quality controls focus on pore structure, bulk density, crush strength, attrition rate, and mercury capacity. Downstream applications primarily involve non-regenerable fixed-bed units within natural gas processing, LNG pretreatment, oil refining, and petrochemical facilities; spent products are typically subjected to stabilization or specialized disposal as mercury-containing hazardous waste.

In 2025, global sales volume is approximately 4,500 metric tons, with an average market price of around \$14 per kilogram and gross profit margins for major manufacturers ranging from 30% to 40%.

Report Scope

This report is a detailed and comprehensive analysis for global Alumina-based Mercury Removal 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 Alumina-based Mercury Removal Adsorbent market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Alumina-based Mercury Removal Adsorbent market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Alumina-based Mercury Removal Adsorbent market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Alumina-based Mercury Removal Adsorbent market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

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 Alumina-based Mercury Removal 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 Alumina-based Mercury Removal 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 Axens, Honeywell UOP, Evonik, UNICAT Catalyst Technologies, Shandong Xunda Chemical Group, Wuhan Kelin Chemical Group, Hubei Hatel Purification Technology, Sichuan DKT Energy Technology, Qingdao Huabiao New Material Technology, etc.

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

Alumina-based Mercury Removal Adsorbent market is split by Type and by Application. For the period 2021-2032, 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 Segmentation

Market segment by Type

Copper Sulfide Type

Complex Metal Sulfide Type

Other

Market segment by Processing Phase

Gas-Phase Type

Liquid-Phase Type

Market segment by Application

Natural Gas and LNG

Petroleum Refining

Petrochemicals

Industrial Gases

Others

Major players covered

Axens

Honeywell UOP

Evonik

UNICAT Catalyst Technologies

Shandong Xunda Chemical Group

Wuhan Kelin Chemical Group

Hubei Hatel Purification Technology

Sichuan DKT Energy Technology

Qingdao Huabiao New Material Technology

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)

Chapter Outline

Chapter 1, to describe Alumina-based Mercury Removal Adsorbent product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Alumina-based Mercury Removal Adsorbent, with price, sales quantity, revenue, and global market share of Alumina-based Mercury Removal Adsorbent from 2021 to 2026.

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

Chapter 4, the Alumina-based Mercury Removal Adsorbent breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Alumina-based Mercury Removal Adsorbent market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Alumina-based Mercury Removal Adsorbent.

Chapter 14 and 15, to describe Alumina-based Mercury Removal Adsorbent sales channel, distributors, customers, research findings and conclusion.

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