

Global Amine-functionalized Solid Sorbents 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 Amine-functionalized Solid Sorbents market size was valued at US\$ 156 million in 2025 and is forecast to a readjusted size of US\$ 424 million by 2032 with a CAGR of 15.1% during review period.

Amine-functionalized solid adsorbents are functional adsorption materials produced by introducing amine active sites onto the surface, inside the pores, or within the polymeric framework of solid porous substrates. These materials use primary amines, secondary amines, tertiary amines, aminopropyl groups, ethylenediamine groups, polyethyleneimine, and other nitrogen-containing functional groups to selectively capture, purify, separate, or enrich target components from gas streams, liquid samples, or complex matrices through acid-base interactions, hydrogen bonding, ion exchange, selective complexation, or weak anion exchange mechanisms. The product scope mainly covers amine-functionalized resins, aminopropyl bonded silica, PSA solid phase extraction sorbents, NH₂ SPE packing materials, amine-based chromatography media, amine scavengers, solid amine carbon dioxide adsorbents, and structured amine-based adsorbent materials. Typical manufacturing processes include porous support preparation, surface silanization, amine grafting, amine impregnation, polymer functionalization, pore structure control, washing and purification, drying, sieving, column packing, granulation, and structured shaping. Key specifications include amine loading, specific surface area, pore size distribution, adsorption capacity, selectivity, regeneration stability, impurity residue, particle size distribution, mechanical strength, and batch-to-batch consistency. These products are mainly used in sample preparation, food and environmental testing, pharmaceutical separation and purification, fine chemical scavenging, industrial gas purification, carbon dioxide capture, and air purification. In 2025, the global amine-functionalized solid adsorbents industry had an

average gross margin of approximately 48% and an average price of approximately US\$220 per kilogram.

Amine-functionalized solid adsorbents represent a specialized segment within functional adsorption materials rather than a single end-use market. The upstream supply chain mainly consists of porous silica, polymeric resins, chromatography-grade microspheres, aminosilanes, polyethyleneimine, ethylenediamine, and functional monomers. The midstream focuses on amine grafting, amine impregnation, polymer functionalization, pore structure control, purification, drying, sieving, packing, and structured shaping. Downstream applications cover analytical sample preparation, food and environmental testing, pharmaceutical purification, fine chemical scavenging, gas treatment, air purification, and carbon capture. Because the product scope spans laboratory consumables, industrial separation media, and emerging solid amine carbon capture materials, the industry needs to be evaluated through a material-based lens rather than by a single application scenario.

The competitive landscape is characterized by the coexistence of mature specialty materials suppliers and emerging carbon capture material developers. Companies serving the chromatography, solid phase extraction, and separation purification markets typically benefit from established product specifications, stable customer certification, recurring consumable demand, and relatively high value-added pricing. In contrast, suppliers focused on carbon dioxide capture, direct air capture, and indoor air purification are still moving through engineering validation, structured adsorbent development, pilot deployment, and early commercialization. As product launches, technology partnerships, mergers and acquisitions, and new structured adsorbent production lines continue to emerge, competition will increasingly depend on material platform capability, functionalization know-how, application validation, and the ability to maintain consistent performance across batches.

Policy and demand conditions are gradually improving the long-term outlook for this material category. Food safety regulation, environmental monitoring, pharmaceutical quality control, and biopharmaceutical research continue to support stable demand for analytical-grade amine adsorbents, while carbon reduction policies, direct air capture demonstrations, industrial gas purification, and indoor air quality management are creating incremental demand for solid amine materials. The industry is unlikely to develop like a bulk chemical market; its growth path is closer to that of high-purity, high-customization, high-certification-barrier specialty materials. Future competition will focus on amine loading stability, adsorption selectivity, regeneration durability, impurity control, pore structure consistency, and reliable scale-up from laboratory or pilot

production to repeatable commercial manufacturing.

This report is a detailed and comprehensive analysis for global Amine-functionalized Solid Sorbents market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Amine Functionality 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 Amine-functionalized Solid Sorbents market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Amine-functionalized Solid Sorbents market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Amine-functionalized Solid Sorbents market size and forecasts, by Amine Functionality Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Amine-functionalized Solid Sorbents market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), 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 Amine-functionalized Solid Sorbents

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 Amine-functionalized Solid Sorbents 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 Ecolab Inc., LANXESS AG, Skytree, Svante Technologies Inc., W. L. Gore & Associates, Inc., Black Whale Energy, Beijing Zhongrun Chenxiang Environmental Protection Technology Co., Ltd., Agilent Technologies, Inc., Merck KGaA, Thermo Fisher Scientific Inc., etc.

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

Market Segmentation

Amine-functionalized Solid Sorbents market is split by Amine Functionality Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Amine Functionality 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 Amine Functionality Type

Primary Amine (-NH₂)

Secondary Amine (-NHR)

Tertiary Amine (-NR₂)

Mixed Amine

Quaternary Ammonium (-NR₄⁺)

Market segment by Support Material

Silica-based Amine Adsorbents

Polymer-based Amine Adsorbents

Carbon-based Amine Adsorbents

Metal Oxide-based Amine Adsorbents

MOF-based Amine Adsorbents

Others

Market segment by Form

Loose Powder

Granular Adsorbents

Pre-packed Cartridge

Others

Market segment by Application

Food

Biotechnology

Chemical

Energy and Carbon Management

Environmental Testing

Academic and Research Institutions

Others

Major players covered

Ecolab Inc.

LANXESS AG

Skytree

Svante Technologies Inc.

W. L. Gore & Associates, Inc.

Black Whale Energy

Beijing Zhongrun Chenxiang Environmental Protection Technology Co., Ltd.

Agilent Technologies, Inc.

Merck KGaA

Thermo Fisher Scientific Inc.

SiliCycle Inc.

Biotage AB

United Chemical Technologies, Inc.

Shanghai ANPEL Laboratory Technologies Inc.

Welch Materials, Inc.

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 Amine-functionalized Solid Sorbents product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Amine-functionalized Solid Sorbents, with price, sales quantity, revenue, and global market share of Amine-functionalized Solid Sorbents from 2021 to 2026.

Chapter 3, the Amine-functionalized Solid Sorbents competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Amine-functionalized Solid Sorbents 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 Amine Functionality Type and by Application, with sales market share and growth rate by Amine Functionality 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 Amine-functionalized Solid Sorbents market forecast, by regions, by Amine Functionality 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 Amine-functionalized Solid Sorbents.

Chapter 14 and 15, to describe Amine-functionalized Solid Sorbents sales channel, distributors, customers, research findings and conclusion.

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