

Global Amine-functionalized Solid Sorbents Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Amine-functionalized Solid Sorbents market size is expected to reach \$ 424 million by 2032, rising at a market growth of 15.1% CAGR during the forecast period (2026-2032).

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 studies the global Amine-functionalized Solid Sorbents production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Amine-functionalized Solid Sorbents and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Amine-functionalized Solid Sorbents that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Amine-functionalized Solid Sorbents total production and demand, 2021-2032, (kg)

Global Amine-functionalized Solid Sorbents total production value, 2021-2032, (USD Million)

Global Amine-functionalized Solid Sorbents production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Amine-functionalized Solid Sorbents consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Amine-functionalized Solid Sorbents domestic production, consumption, key domestic manufacturers and share

Global Amine-functionalized Solid Sorbents production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Amine-functionalized Solid Sorbents production by Amine Functionality Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Amine-functionalized Solid Sorbents production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Amine-functionalized Solid Sorbents market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Amine-functionalized Solid Sorbents market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Amine Functionality Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Amine-functionalized Solid Sorbents Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Amine-functionalized Solid Sorbents Market, Segmentation by Amine Functionality Type:

Primary Amine (-NH₂)

Secondary Amine (-NHR)

Tertiary Amine (-NR₂)

Mixed Amine

Quaternary Ammonium (-NR??)

Global Amine-functionalized Solid Sorbents Market, Segmentation 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

Global Amine-functionalized Solid Sorbents Market, Segmentation by Form:

Loose Powder

Granular Adsorbents

Pre-packed Cartridge

Others

Global Amine-functionalized Solid Sorbents Market, Segmentation by Application:

Food

Biotechnology

Chemical

Energy and Carbon Management

Environmental Testing

Academic and Research Institutions

Others

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global Amine-functionalized Solid Sorbents market?
2. What is the demand of the global Amine-functionalized Solid Sorbents market?
3. What is the year over year growth of the global Amine-functionalized Solid Sorbents market?
4. What is the production and production value of the global Amine-functionalized Solid Sorbents market?
5. Who are the key producers in the global Amine-functionalized Solid Sorbents market?
6. What are the growth factors driving the market demand?

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