

Global Solid Sorbents for Direct Air Capture 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 Solid Sorbents for Direct Air Capture market size was valued at US\$ 18.52 million in 2025 and is forecast to a readjusted size of US\$ 95.40 million by 2032 with a CAGR of 24.4% during review period.

Solid sorbents for direct air capture are functional materials designed to selectively capture low concentration carbon dioxide from ambient air, forming an important segment within carbon capture materials and advanced adsorption materials. The product scope mainly covers amine functionalized porous sorbents, ion exchange resin sorbents, structured sorbents, carbonate or oxide looping materials, metal organic framework materials, and composite porous adsorption materials. These products are commonly supplied as granules, beads, honeycombs, sheets, cartridges, monolithic adsorbers, or modular adsorption beds. Their manufacturing processes usually involve functional group grafting, amine loading, resin polymerization, pore structure control, coating and forming, honeycomb substrate integration, thermal treatment, and cyclic stability testing. Key specifications include carbon dioxide uptake under low concentration air conditions, adsorption rate, regeneration temperature, cycle life, humidity tolerance, pressure drop, mechanical strength, and material stability. The core function of these sorbents is to improve capture efficiency, reduce regeneration energy consumption, and extend the operating life of direct air capture systems. They are mainly used in carbon dioxide removal, synthetic fuels, greenhouse carbon dioxide supply, and distributed carbon dioxide generation systems. In 2025, the global solid sorbents for direct air capture industry had an average gross margin of about 42% and an average industry price of about US\$50 per kg.

Solid sorbents for direct air capture are core functional materials that determine capture efficiency, regeneration energy, operating stability, and long term economics of solid sorbent DAC systems. The upstream value chain includes amine functional reagents, porous supports, ion exchange resins, metal organic frameworks, inorganic carbonates, oxides, honeycomb substrates, and coated composite materials. The midstream focuses on sorbent formulation, structured material processing, filter media manufacturing, monolithic adsorber design, and modular adsorption bed development. Downstream demand mainly comes from carbon dioxide removal projects, synthetic fuel pathways, greenhouse carbon dioxide supply, distributed carbon dioxide generation, and low carbon industrial applications. The industry is still in the early commercialization stage, where material performance is deeply linked with system architecture, airflow design, heat management, and regeneration strategy.

Competition is shifting from laboratory adsorption capacity to structured sorbent engineering, adsorber module design, and system level compatibility. North America and Europe remain more active in commercial deployment, policy funding, engineering validation, and supply chain partnerships. Several companies are accelerating scale up through technology cooperation, acquisitions, pilot projects, and new product launches. In Asia, research activity is visible, especially in advanced sorbent chemistry and porous materials, but publicly verifiable commercial manufacturing capacity remains limited. Demand growth is therefore unlikely to be smooth or linear, as the market depends heavily on project financing, carbon removal offtake agreements, energy costs, and government support.

Over the next several years, industry expansion will be driven by carbon removal policies, long term corporate procurement, regional DAC hubs, modular equipment scale up, and improvements in structured sorbent technology. Amine functionalized sorbents are expected to remain one of the main routes, while resin based, mineral looping, oxide based, and MOF based systems will continue to develop for different operating windows. The outlook is positive, but the industry still faces challenges in material lifetime, batch consistency, regeneration energy, manufacturing cost, and real world durability. Overall, this is a small scale, high barrier, project driven advanced functional materials market rather than a commodity adsorbent market.

This report is a detailed and comprehensive analysis for global Solid Sorbents for Direct Air Capture 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 Solid Sorbents for Direct Air Capture market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

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

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

Global Solid Sorbents for Direct Air Capture 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 Solid Sorbents for Direct Air Capture

- 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 Solid Sorbents for Direct Air Capture 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 Svante Technologies Inc., W. L. Gore & Associates, Inc., Purolite, Cormetech, Inc., Climeworks AG, CarbonCapture Inc., Global Thermostat / Zero Carbon Systems, Heirloom Carbon Technologies, Skytree, Soletair Power, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Solid Sorbents for Direct Air Capture 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 segment by Type

Amine-functionalized Sorbents

Ion-exchange Resin Sorbents

Carbonate and Oxide Sorbents

Metal-organic Framework Sorbents

Others

Market segment by Regeneration Method

Temperature Swing Adsorption

Vacuum Temperature Swing Adsorption

Moisture Swing Adsorption

Carbonate Looping Regeneration

Others

Market segment by Form

Granules

Coated Laminates

Honeycomb Monoliths

Fibers

Others

Market segment by Application

Clean Energy Industry

Chemical Industry

Agriculture Industry

Industry

Environmental Protection Industry

Others

Major players covered

Svante Technologies Inc.

W. L. Gore & Associates, Inc.

Purolite

Cormetech, Inc.

Climeworks AG

CarbonCapture Inc.

Global Thermostat / Zero Carbon Systems

Heirloom Carbon Technologies

Skytree

Soletair Power

Airhive

Octavia Carbon

InnoSeptra LLC

Linhe Climate Technology Beijing Co., Ltd.

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 Solid Sorbents for Direct Air Capture product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solid Sorbents for Direct Air Capture, with price, sales quantity, revenue, and global market share of Solid Sorbents for Direct Air Capture from 2021 to 2026.

Chapter 3, the Solid Sorbents for Direct Air Capture competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solid Sorbents for Direct Air Capture 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 Solid Sorbents for Direct Air Capture 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 Solid Sorbents for Direct Air Capture.

Chapter 14 and 15, to describe Solid Sorbents for Direct Air Capture sales channel, distributors, customers, research findings and conclusion.

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