

Global Solid Sorbents for Direct Air Capture Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solid Sorbents for Direct Air Capture market size is expected to reach \$ 95.40 million by 2032, rising at a market growth of 24.4% CAGR during the forecast period (2026-2032).

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 studies the global Solid Sorbents for Direct Air Capture production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solid Sorbents for Direct Air Capture 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 Solid Sorbents for Direct

Air Capture that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solid Sorbents for Direct Air Capture total production and demand, 2021-2032, (kg)

Global Solid Sorbents for Direct Air Capture total production value, 2021-2032, (USD Million)

Global Solid Sorbents for Direct Air Capture production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Solid Sorbents for Direct Air Capture consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Solid Sorbents for Direct Air Capture domestic production, consumption, key domestic manufacturers and share

Global Solid Sorbents for Direct Air Capture production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Solid Sorbents for Direct Air Capture production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Solid Sorbents for Direct Air Capture production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Solid Sorbents for Direct Air Capture 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Solid Sorbents for Direct Air Capture 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 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 Solid Sorbents for Direct Air Capture Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid Sorbents for Direct Air Capture Market, Segmentation by Type:

Amine-functionalized Sorbents

Ion-exchange Resin Sorbents

Carbonate and Oxide Sorbents

Metal-organic Framework Sorbents

Others

Global Solid Sorbents for Direct Air Capture Market, Segmentation by Regeneration Method:

Temperature Swing Adsorption

Vacuum Temperature Swing Adsorption

Moisture Swing Adsorption

Carbonate Looping Regeneration

Others

Global Solid Sorbents for Direct Air Capture Market, Segmentation by Form:

Granules

Coated Laminates

Honeycomb Monoliths

Fibers

Others

Global Solid Sorbents for Direct Air Capture Market, Segmentation by Application:

Clean Energy Industry

Chemical Industry

Agriculture Industry

Industry

Environmental Protection Industry

Others

Companies Profiled:

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.

Key Questions Answered:

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

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