

Global Direct Air Capture Adsorbent Material 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 Direct Air Capture Adsorbent Material market size was valued at US\$ 402 million in 2025 and is forecast to a readjusted size of US\$ 595 million by 2032 with a CAGR of 4.4% during review period.

Direct Air Capture Adsorbent Material refers to a functional carbon dioxide capture material designed for direct air capture equipment. Its core task is to selectively adsorb carbon dioxide from gas mixtures containing extremely low concentrations of carbon dioxide along with nitrogen, oxygen, water vapor, and other components under ambient-temperature, ambient-pressure, or low-pressure air conditions, and to release high-concentration carbon dioxide through heating, vacuum, electrochemical processes, humidity changes, or mineral cycling, thereby enabling repeated material reuse. These materials typically include amine-functionalized porous supports, metal-organic frameworks, ion-exchange resins, nanostructured polymers, molecular sieves, carbonate minerals, and structured composite filter media, and are commonly processed into granules, coatings, fibers, honeycombs, spherical filter media, or modular contactors. Their value lies not only in adsorption capacity, but also in low regeneration energy consumption, low pressure drop, resistance to humidity and thermal aging, cycle life, scalable manufacturing, and process compatibility with DAC modules. Typical applications include permanent carbon storage, carbon supply for synthetic fuels, greenhouse carbon dioxide enrichment, replacement of beverage-grade and industrial carbon dioxide, corporate carbon removal credits, and pilot-scale research validation. Major customers include DAC equipment manufacturers, carbon removal project developers, low-carbon fuel companies, carbon credit buyers, and materials co-development partners.

Direct air capture adsorbent materials sit at the core of the DAC technology chain because they determine air-contact efficiency, carbon dioxide selectivity, regeneration temperature, cycle life and system-level energy consumption. Since carbon dioxide in ambient air is far more diluted than in industrial flue gas, these materials must maintain strong adsorption capacity under low partial-pressure conditions while remaining stable under humidity, temperature fluctuations and long-term cycling. Current commercialization routes mainly involve amine-functionalized porous materials, structured composite filter media, ion-exchange resins, nanostructured polymers, metal-organic frameworks and mineral cycling materials. Mature routes emphasize engineering reliability, while emerging routes focus on higher capacity, faster kinetics and lower energy demand. Competition is no longer based on material metrics alone, but on the integrated performance of materials, supports, airflow channels, regeneration methods and module manufacturing.

The commercialization of direct air capture adsorbent materials is driven by the carbon removal market, corporate net-zero commitments, policy incentives and demand for low-carbon fuels. As DAC projects move from small demonstration units to modular plants, adsorbent materials are expected to shift from laboratory consumables to critical operating materials with recurring procurement and replacement demand. Customers increasingly focus on real-world performance, including humidity tolerance, regeneration energy, degradation rate, manufacturing consistency and supply stability. For material suppliers, selling powders or resins alone may not capture the highest value. The more important opportunity is to participate in contactor design, filter packaging, system validation and long-term supply agreements, thereby entering the supply chains of DAC equipment companies and carbon removal project developers.

The market for direct air capture adsorbent materials remains in an early high-growth stage. Near-term scale is constrained by DAC deployment, carbon credit procurement and storage infrastructure, but the long-term growth logic is clear. The United States and Europe are likely to form the first project-driven markets, while Japan and Canada have strengths in engineering and material validation. Emerging regions may host deployment by combining low-carbon energy and favorable geological storage conditions. Material prices may not decline uniformly, because high-performance materials can command premiums through longer cycle life, lower regeneration energy and higher annual capture per unit of material. However, the cost per ton of carbon dioxide captured should improve as material intensity falls, manufacturing scales, contactors become standardized and regeneration energy declines. Therefore, this product should be studied as a combined material, structure and system-validation

industry rather than as a conventional chemical adsorbent market.

This report is a detailed and comprehensive analysis for global Direct Air Capture Adsorbent Material market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Capture Mechanism 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 Direct Air Capture Adsorbent Material market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Direct Air Capture Adsorbent Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Direct Air Capture Adsorbent Material market size and forecasts, by Capture Mechanism and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Direct Air Capture Adsorbent Material market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Direct Air Capture Adsorbent Material

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 Direct Air Capture Adsorbent Material

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 Climeworks, CarbonCapture Inc., W. L. Gore & Associates, Ecolab Purolite, Skytree, Heirloom Carbon, Verdox, Atoco, Baker Hughes, Svante, etc.

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

Market Segmentation

Direct Air Capture Adsorbent Material market is split by Capture Mechanism and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Capture Mechanism, 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 Capture Mechanism

- Chemisorption Adsorbent Material

- Physisorption Adsorbent Material

- Other

Market segment by System Position

- Filter Cartridge Integrated Material

- Contactor Integrated Material

- Passive Air-Contact Material

- Moving-Bed Circulating Material

- Fixed-Bed Cycling Material

Market segment by Delivery Form

Granular Filter Media

Coated Filter Media

Fibrous Filter Media

Honeycomb Filter Media

Spherical Filter Media

Structured Contactor

Market segment by Application

Permanent Storage

Carbon Supply for Synthetic Fuels

Carbon Dioxide Supply for Greenhouse Agriculture

Industrial Carbon Dioxide Replacement

Corporate Carbon Removal Credit

Research and Pilot Validation

Major players covered

Climeworks

CarbonCapture Inc.

W. L. Gore & Associates

Ecolab Purolite

Skytree

Heirloom Carbon

Verdox

Atoco

Baker Hughes

Svante

Kawasaki Heavy Industries

Carbyon

Spiritus

Sirona Technologies

Octavia Carbon

Sustaera

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 Direct Air Capture Adsorbent Material product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Direct Air Capture Adsorbent Material 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 Capture Mechanism and by Application, with sales market share and growth rate by Capture Mechanism, 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 Direct Air Capture Adsorbent Material market forecast, by regions, by Capture Mechanism, 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 Direct Air Capture Adsorbent Material.

Chapter 14 and 15, to describe Direct Air Capture Adsorbent Material sales channel, distributors, customers, research findings and conclusion.

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