

Global Solid Amine 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 Amine Sorbents for Direct Air Capture market size was valued at US\$ 372 million in 2025 and is forecast to a readjusted size of US\$ 736 million by 2032 with a CAGR of 10.5% during review period.

Global sales volume of solid amine adsorbents for direct air capture is projected to reach 803,000 metric tons in 2025, with an average price of approximately \$450 per ton.

Solid amine adsorbents for direct air capture are CO₂-capturing materials created by functionalizing amine groups onto substrates such as porous resins, oxides, fibrous carriers, MOFs, or honeycomb contactors. They selectively capture CO₂ from ambient air (where concentrations are low) and release high-concentration CO₂ through regeneration processes such as temperature swing, vacuum/temperature swing, moisture swing, or electrochemical methods. Upstream inputs primarily include porous carriers, amine chemicals, contactor structural components, and renewable energy sources; downstream applications mainly target permanent carbon removal, synthetic fuels, food-grade CO₂, greenhouse cultivation, and industrial carbon management.

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

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

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

Global Solid Amine Sorbents for Direct Air Capture 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 Solid Amine 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 Amine 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 Climeworks, Svante, Global Thermostat, CarbonCapture Inc., Heirloom Carbon, Skytree, Carbyon, AirCapture, Phlair, Soletair Power, etc.

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

Market Segmentation

Solid Amine 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 Porous Sorbent

Ion-Exchange Resin Sorbent

MOF / Porous Polymer Sorbent

Market segment by CO2 Capacity

CO2 Capacity 3 mmol/g

Market segment by Functional Category

Temperature Swing Adsorption

Vacuum / Temperature Swing Adsorption

Moisture Swing / Electro-Swing

Market segment by Application

Permanent CO2 Removal

E-Fuels and Synthetic Chemicals

Greenhouse and Food-Grade CO2

Industrial Carbon Management

Major players covered

Climeworks

Svante

Global Thermostat

CarbonCapture Inc.

Heirloom Carbon

Skytree

Carbyon

AirCapture

Phlair

Soletair Power

Removr

Sustaera

Mitsubishi Heavy Industries

Toshiba Energy Systems

Sinopec

China Huaneng Clean Energy Research Institute

Market segment by region, regional analysis covers

Global Solid Amine Sorbents for Direct Air Capture Market 2026 by Manufacturers, Regions, Type and Application...

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

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

Chapter 3, the Solid Amine 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 Amine 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 Amine 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 Amine Sorbents for Direct Air Capture.

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

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