

Global CO₂ Capture Solvents and Sorbents Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global CO₂ Capture Solvents and Sorbents market size was valued at US\$ 1955 million in 2025 and is forecast to a readjusted size of US\$ 6389 million by 2032 with a CAGR of 17.6% during review period.

CO₂ capture solvents and sorbents are functional materials used to selectively capture CO₂ from flue gas, natural gas, syngas or air. Major types include amine solvents, blended solvents, physical absorbents, solid sorbents and MOF materials. Key performance metrics include CO₂ capacity, selectivity, regeneration energy, impurity tolerance, corrosion control and long-term stability.

Carbon capture projects are moving from demonstration to industrial deployment, and high-emission industries such as cement, steel, hydrogen, power and waste incineration need capture materials with lower energy consumption, higher stability and better tolerance to complex flue gases. Amine solvents remain the mainstream route, but degradation, corrosion and regeneration energy are driving development of blended solvents, solid sorbents and structured materials.

Market growth depends on carbon pricing, subsidies, storage infrastructure and project financing. Material suppliers need to provide not only solvents or sorbents, but also compatibility with process packages, engineering design and operation systems. Future high-value products will concentrate in low-energy solvents, contamination-tolerant sorbents, MOF materials and direct-air-capture materials.

This report is a detailed and comprehensive analysis for global CO₂ Capture Solvents

and Sorbents market. Both quantitative and qualitative analyses are presented by company, 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 CO₂ Capture Solvents and Sorbents market size and forecasts, in consumption value (\$ Million), 2021-2032

Global CO₂ Capture Solvents and Sorbents market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global CO₂ Capture Solvents and Sorbents market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global CO₂ Capture Solvents and Sorbents market shares of main players, in revenue (\$ Million), 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 CO₂ Capture Solvents and Sorbents

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 CO₂ Capture Solvents and Sorbents market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF, Shell Catalysts & Technologies, Mitsubishi Heavy Industries, Carbon Clean, Aker Carbon Capture, Honeywell, Fluor, Svante, Clariant, Linde, etc.

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

Market segmentation

CO₂ Capture Solvents and Sorbents 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Solid Sorbents

Liquid Sorbents

Market segment by Source

Post-Combustion Capture Materials

Pre-Combustion Capture Materials

Direct Air Capture Sorbents

Other

Market segment by Structure

Pellet Sorbents

Membrane-Sorbent Hybrids

Other

Market segment by Application

Power Plants

Cement Plants

Steel Mills

Hydrogen Production

Waste Incineration

Other

Market segment by players, this report covers

BASF

Shell Catalysts & Technologies

Mitsubishi Heavy Industries

Carbon Clean

Aker Carbon Capture

Honeywell

Fluor

Svante

Clariant

Linde

Sinopec

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe CO₂ Capture Solvents and Sorbents product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of CO₂ Capture Solvents and Sorbents, with revenue, gross margin, and global market share of CO₂ Capture Solvents and Sorbents from 2021 to 2026.

Chapter 3, the CO₂ Capture Solvents and Sorbents competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and CO₂ Capture Solvents and Sorbents market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of CO₂ Capture Solvents and Sorbents.

Chapter 13, to describe CO₂ Capture Solvents and Sorbents research findings and conclusion.

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