

# Global CO<sub>2</sub> Capture Solvents and Sorbents Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global CO<sub>2</sub> Capture Solvents and Sorbents market size is expected to reach \$ 6389 million by 2032, rising at a market growth of 17.6% CAGR during the forecast period (2026-2032).

CO<sub>2</sub> capture solvents and sorbents are functional materials used to selectively capture CO<sub>2</sub> 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 CO<sub>2</sub> 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 studies the global CO<sub>2</sub> Capture Solvents and Sorbents demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for CO<sub>2</sub> Capture Solvents and Sorbents, 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 CO<sub>2</sub> Capture Solvents and Sorbents that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CO<sub>2</sub> Capture Solvents and Sorbents total market, 2021-2032, (USD Million)

Global CO<sub>2</sub> Capture Solvents and Sorbents total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: CO<sub>2</sub> Capture Solvents and Sorbents total market, key domestic companies, and share, (USD Million)

Global CO<sub>2</sub> Capture Solvents and Sorbents revenue by player, revenue and market share 2021-2026, (USD Million)

Global CO<sub>2</sub> Capture Solvents and Sorbents total market by Type, CAGR, 2021-2032, (USD Million)

Global CO<sub>2</sub> Capture Solvents and Sorbents total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global CO<sub>2</sub> 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world CO<sub>2</sub> Capture Solvents and Sorbents market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 CO<sub>2</sub> Capture Solvents and Sorbents Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global CO<sub>2</sub> Capture Solvents and Sorbents Market, Segmentation by Type:

Solid Sorbents

Liquid Sorbents

## Global CO<sub>2</sub> Capture Solvents and Sorbents Market, Segmentation by Source:

Post-Combustion Capture Materials

Pre-Combustion Capture Materials

Direct Air Capture Sorbents

Other

## Global CO<sub>2</sub> Capture Solvents and Sorbents Market, Segmentation by Structure:

Pellet Sorbents

Membrane-Sorbent Hybrids

Other

#### Global CO<sub>2</sub> Capture Solvents and Sorbents Market, Segmentation by Application:

Power Plants

Cement Plants

Steel Mills

Hydrogen Production

Waste Incineration

Other

#### Companies Profiled:

BASF

Shell Catalysts & Technologies

Mitsubishi Heavy Industries

Carbon Clean

Aker Carbon Capture

Honeywell

Fluor

Svante

Clariant

Linde

Sinopec

#### Key Questions Answered

1. How big is the global CO<sub>2</sub> Capture Solvents and Sorbents market?
2. What is the demand of the global CO<sub>2</sub> Capture Solvents and Sorbents market?
3. What is the year over year growth of the global CO<sub>2</sub> Capture Solvents and Sorbents market?
4. What is the total value of the global CO<sub>2</sub> Capture Solvents and Sorbents market?
5. Who are the Major Players in the global CO<sub>2</sub> Capture Solvents and Sorbents market?
6. What are the growth factors driving the market demand?

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