

Global Carbon Dioxide Capture Agents Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Dioxide Capture Agents market size is expected to reach \$ 536 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

Carbon dioxide capture agents refer to substances that, through physical or chemical actions, adsorb or absorb carbon dioxide from gas mixtures under specific temperatures and pressures and can release the carbon dioxide when conditions change for recycling. These include chemical absorbents (currently mainstream): such as alkanolamines (MEA, MDEA, PZ, etc.), amino acid salts, ionic liquids. Physical adsorbents: such as activated carbon, zeolite molecular sieves, metal-organic frameworks. New capture agents: phase change absorbents (reducing regeneration energy consumption), new solid amine materials. Upstream raw materials include ethylene oxide, liquid ammonia, alcohols (methanol/ethanol), natural gas, etc. Downstream applications include traditional high-carbon industries: coal-fired power plants, steel mills, cement plants, chemical enterprises. As well as emerging fields: blue hydrogen production, direct air capture (DAC). The global market average price is \$2,150 per ton, with sales of 115,000 tons and global capacity of 130,000 tons. The industry profit margin is 11%.

Carbon dioxide capture agents, as the core chemical materials of carbon capture, utilization and storage (CCUS) technology, are undergoing a critical technological iteration from experimental application to large-scale commercialization. The current trend is highly focused on reducing regeneration energy consumption and enhancing chemical stability. The research and development focus has shifted from traditional monoethanolamine to phase change absorbents and non-aqueous solvents that can reduce energy consumption by more than 30%. Meanwhile, with the rise of direct air

capture (DAC) technology, solid adsorbents such as metal-organic frameworks (MOFs) with ultra-high specific surface area are becoming a highly promising technological high ground. Additionally, to meet the modular requirements of industrial decarbonization, future capture agents will evolve towards low corrosion, long life, and biocatalytic directions, aiming to compress the comprehensive cost of capturing each ton of carbon dioxide to below the commercial break-even point of \$30. In terms of market drivers, the increasingly strict global carbon pricing mechanisms and policy subsidies form the underlying driving force for industry growth. As carbon trading prices continue to rise in major economies and policies such as the US 45Q tax credit are implemented, capturing carbon dioxide is transforming from a mere compliance cost to an investment with economic returns. This transformation is particularly significant in industries such as steel, cement, and chemicals that are difficult to decarbonize through electrification, and is further driven by the large-scale development of the blue hydrogen industry chain, directly giving rise to a rigid demand for high-performance capture agents. With global chemical giants accelerating capacity transformation and patent layout, the capture agent industry has entered a period of explosive growth driven by infrastructure improvement and scale effects, and is expected to maintain a double-digit growth rate after 2026, becoming a key incremental market in the global energy transition.

This report studies the global Carbon Dioxide Capture Agents production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Dioxide Capture Agents 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 Carbon Dioxide Capture Agents that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Dioxide Capture Agents total production and demand, 2021-2032, (Kilotons)

Global Carbon Dioxide Capture Agents total production value, 2021-2032, (USD Million)

Global Carbon Dioxide Capture Agents production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Carbon Dioxide Capture Agents consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Carbon Dioxide Capture Agents domestic production, consumption, key domestic manufacturers and share

Global Carbon Dioxide Capture Agents production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Carbon Dioxide Capture Agents production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Carbon Dioxide Capture Agents production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Carbon Dioxide Capture Agents 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 BASF SE, Dow Inc., Mitsubishi Heavy Industries, Shell Catalysts & Technologies, Wanhua Chemical, Aker Carbon Capture, Honeywell UOP, Linde Engineering, Air Liquide, Carbon Clean, 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 Carbon Dioxide Capture Agents market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Carbon Dioxide Capture Agents Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Dioxide Capture Agents Market, Segmentation by Type:

Chemical Absorbent

Physical Absorbent

Physical & Chemical Adsorbent

Global Carbon Dioxide Capture Agents Market, Segmentation by Material Form:

Liquid Capture Agent

Solid Capture Agent

New Type of Phase Change & Ion Liquid

Global Carbon Dioxide Capture Agents Market, Segmentation by Carbon Source Concentration:

High-Concentration Collector CO₂ > 15%

Low-Concentration Collector CO₂ 3% - 15%

Ultra-Low Concentration Collector(Air capture)

Global Carbon Dioxide Capture Agents Market, Segmentation by Application:

Hard to Reduce Heavy Industry

Energy Production and Conversion

Resource Utilization and Productization

Environmental Governance and Cutting-edge Technologies

Companies Profiled:

BASF SE

Dow Inc.

Mitsubishi Heavy Industries

Shell Catalysts & Technologies

Wanhua Chemical

Aker Carbon Capture

Honeywell UOP

Linde Engineering

Air Liquide

Carbon Clean

Climeworks

Svante Inc.

Norit

CO2 CAP&CONV

DERUNCHEN

Beijing Carbon Cycle Technology

Cleanco2

Hengchang Chemical

Haipu

Shanghai Yuanlin

Key Questions Answered:

1. How big is the global Carbon Dioxide Capture Agents market?
2. What is the demand of the global Carbon Dioxide Capture Agents market?
3. What is the year over year growth of the global Carbon Dioxide Capture Agents market?
4. What is the production and production value of the global Carbon Dioxide Capture Agents market?
5. Who are the key producers in the global Carbon Dioxide Capture Agents market?
6. What are the growth factors driving the market demand?

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