

Global CO₂ Trapping Agent Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CO₂ Trapping Agent market size is expected to reach \$ 5076 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

The global output of CO₂ trapping agents reached 680 thousand tons in 2025, with an average selling price of USD 3,850 per ton, total production capacity of 920 thousand tons, and an average gross margin of 28%.

CO₂ trapping agents are functional materials used in carbon capture, utilization, and storage (CCUS) processes to selectively absorb, adsorb, or separate carbon dioxide (CO₂) from industrial exhaust gases, combustion flue gas, natural gas streams, or ambient air. They mainly include liquid absorbents (such as amine-based solvents), solid adsorbents (such as molecular sieves, activated carbon, and metal-organic frameworks), as well as membrane separation materials. Their core function is to improve CO₂ separation efficiency, reduce energy consumption, and enhance regeneration performance, making them critical enabling materials for industrial decarbonization and carbon neutrality.

The upstream mainly includes suppliers of chemical raw materials such as ethanolamines, methanolamines, potassium hydroxide, molecular sieve materials, activated carbon carriers, and metal-organic framework (MOF) precursors. The midstream consists of CO₂ trapping agent manufacturers responsible for material synthesis, formulation, performance optimization, and regeneration system development. The downstream mainly covers carbon capture applications in coal-fired power plants, natural gas purification, steel, cement, chemical industries, and direct air capture (DAC), serving as a core material segment in the Carbon Capture, Utilization and Storage industry chain.

This report studies the global CO₂ Trapping Agent production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CO₂ Trapping Agent 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 CO₂ Trapping Agent that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CO₂ Trapping Agent total production and demand, 2021-2032, (Kilotons)

Global CO₂ Trapping Agent total production value, 2021-2032, (USD Million)

Global CO₂ Trapping Agent production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global CO₂ Trapping Agent consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: CO₂ Trapping Agent domestic production, consumption, key domestic manufacturers and share

Global CO₂ Trapping Agent production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global CO₂ Trapping Agent production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global CO₂ Trapping Agent production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global CO₂ Trapping Agent 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, ExxonMobil, Mitsubishi Heavy Industries, Honeywell, Fluor Corporation, Carbon Clean Solutions, Toshiba, Dow, 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 CO₂ Trapping Agent 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 CO₂ Trapping Agent Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CO₂ Trapping Agent Market, Segmentation by Type:

Amine Solvents

Others

Global CO₂ Trapping Agent Market, Segmentation by Principle:

Absorption-based Trapping Agent

Adsorption-based Trapping Agent

Membrane-based Trapping Agent

Chemical Looping Trapping Agent

Global CO₂ Trapping Agent Market, Segmentation by Application:

Energy and Electricity

High-Emission Industries

Other

Companies Profiled:

BASF

ExxonMobil

Mitsubishi Heavy Industries

Honeywell

Fluor Corporation

Carbon Clean Solutions

Toshiba

Dow

Key Questions Answered:

1. How big is the global CO₂ Trapping Agent market?
2. What is the demand of the global CO₂ Trapping Agent market?
3. What is the year over year growth of the global CO₂ Trapping Agent market?
4. What is the production and production value of the global CO₂ Trapping Agent market?

5. Who are the key producers in the global CO? Trapping Agent market?
6. What are the growth factors driving the market demand?

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