

Global Carbon Dioxide Mineralization Material Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G9E259682CA5EN.html>

Date: July 2026

Pages: 103

Price: US\$ 4,480.00 (Single User License)

ID: G9E259682CA5EN

Abstracts

The global Carbon Dioxide Mineralization Material market size is expected to reach \$ 1348 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

Carbon dioxide mineralization carbon sequestration materials are low-carbon materials that use captured or recycled carbon dioxide, natural or recycled calcium and magnesium minerals, alkaline industrial byproducts, demolished concrete, steel slag, fly ash and other feedstocks as primary reaction inputs. Through processes such as accelerated carbonation, aqueous mineralization, gas-solid reactions and reactor-based mineralization, carbon dioxide is converted into stable carbonates and embedded in aggregates, cementitious materials, carbonate powders, concrete products and fillers. These materials address the high carbon emissions of cement, concrete, aggregates and industrial fillers, as well as the low-value utilization of industrial solid waste. Their core value lies in converting carbon dioxide from a gaseous emission into a mineral component that can remain stable over the long term, while also forming products that can be sold, transported and integrated into existing building-material and industrial-material systems. Typical applications include concrete blending, aggregate replacement, block manufacturing, cement replacement, industrial fillers and solid waste resource utilization. Major customers include cement producers, ready-mix concrete companies, precast component manufacturers, building-material companies, industrial filler users, solid waste treatment companies and carbon reduction project developers.

The industrial value of carbon dioxide mineralization carbon sequestration materials is shifting from a single decarbonization concept toward a tradable material attribute. The building materials industry has a massive consumption base, and cement production remains an important global source of carbon emissions, with clinker production

representing the core emissions-intensive stage. This creates clear substitution opportunities for mineralized aggregates, mineralized cementitious materials and recycled concrete aggregates. Compared with standalone carbon capture and storage, mineralized materials can fix carbon dioxide into saleable building materials or fillers, combining carbon reduction with physical material output. They not only address demand for low-carbon building materials, but also provide a higher-value utilization pathway for industrial solid waste, demolished concrete and alkaline mineral byproducts.

The growth drivers of this industry mainly come from low-carbon building material procurement, industrial byproduct resource utilization, life-cycle carbon reduction in construction and demand for carbon removal projects. As carbon management infrastructure, green building evaluation systems and low-carbon material certification mechanisms continue to improve, the commercialization conditions for mineralization-based carbon sequestration materials are becoming more favorable. For these materials, the most important commercialization direction is not to build an entirely new building materials system, but to integrate into existing cement plants, concrete plants, aggregate plants, solid waste treatment facilities and precast component factories. Revenue can be generated through low-clinker substitution, recycled aggregate enhancement, carbonate powder supply and low-carbon product certification, allowing carbon reduction value, material value and solid waste resource utilization value to be combined within the same product system.

Production regions are currently more concentrated in Europe, North America and demonstration-project markets, where earlier layouts have been established in mineralized aggregates, carbonate powders, mineralized cementitious materials and recycled concrete carbon sequestration. Sales regions are expected to first concentrate in markets with more developed low-carbon building regulations, green procurement systems, infrastructure demand and building material certification frameworks, including North America, Europe and the gradually accelerating Asia-Pacific market. As low-carbon cement, carbon-storing building materials and recycled aggregates enter commercial projects, industry competition will shift from simple carbon sequestration volume toward material performance, cost, certification, supply stability and compatibility with existing building material standards. Future product pathways with greater scaling potential will focus on synthetic limestone aggregates, mineralized supplementary cementitious materials, carbonate powders, recycled concrete aggregates and low-carbon concrete products.

This report studies the global Carbon Dioxide Mineralization Material production,

demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Carbon Dioxide Mineralization Material total production and demand, 2021-2032, (Tons)

Global Carbon Dioxide Mineralization Material total production value, 2021-2032, (USD Million)

Global Carbon Dioxide Mineralization Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Carbon Dioxide Mineralization Material consumption by region & country, CAGR, 2021-2032 & (Tons)

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

Global Carbon Dioxide Mineralization Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Carbon Dioxide Mineralization Material production by Carbonation Product, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Carbon Dioxide Mineralization Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Carbon Dioxide Mineralization Material 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 Blue Planet Systems, O.C.O Technology, Paebbl, CarbonFree, Carbon Upcycling, Fortera, neustark, CarbonBuilt, 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 Mineralization Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Carbonation Product, 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 Mineralization Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Dioxide Mineralization Material Market, Segmentation by Carbonation Product:

Calcium Carbonate Carbon-Sequestering Material

Magnesium Carbonate Carbon-Sequestering Material

Calcium-Magnesium Composite Carbonate Material

Global Carbon Dioxide Mineralization Material Market, Segmentation by Delivery Form:

Carbon-Mineralized Aggregate

Carbon-Mineralized Cementitious Material

Carbon-Mineralized Carbonate Powder

Carbon-Mineralized Concrete Product

Carbon-Mineralized Filler

Global Carbon Dioxide Mineralization Material Market, Segmentation by Carbon Sequestration Positioning:

Permanent Storage Material

Low-Carbon Building Material

Industrial Byproduct Upcycling Material

Recycled Aggregate Material

Global Carbon Dioxide Mineralization Material Market, Segmentation by Application:

Concrete Blending

Aggregate Replacement

Block Manufacturing

Cement Replacement

Industrial Filler

Solid Waste Resource Utilization

Companies Profiled:

Blue Planet Systems

O.C.O Technology

Paebbl

CarbonFree

Carbon Upcycling

Fortera

neustark

CarbonBuilt

Key Questions Answered:

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

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