

Global Carbon Dioxide Mineralization Material Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G2433A0000F1EN.html>

Date: July 2026

Pages: 92

Price: US\$ 3,480.00 (Single User License)

ID: G2433A0000F1EN

Abstracts

According to our (Global Info Research) latest study, the global Carbon Dioxide Mineralization Material market size was valued at US\$ 910 million in 2025 and is forecast to a readjusted size of US\$ 1348 million by 2032 with a CAGR of 4.4% during review period.

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 is a detailed and comprehensive analysis for global Carbon Dioxide Mineralization Material market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Carbonation Product 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 Carbon Dioxide Mineralization Material market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Carbon Dioxide Mineralization Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Carbon Dioxide Mineralization Material market size and forecasts, by Carbonation Product and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Carbon Dioxide Mineralization Material market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Carbon Dioxide Mineralization Material

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 Carbon Dioxide Mineralization Material

market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Carbon Dioxide Mineralization Material market is split by Carbonation Product and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Carbonation Product, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Carbonation Product

- Calcium Carbonate Carbon-Sequestering Material

- Magnesium Carbonate Carbon-Sequestering Material

- Calcium-Magnesium Composite Carbonate Material

Market segment by Delivery Form

- Carbon-Mineralized Aggregate

- Carbon-Mineralized Cementitious Material

- Carbon-Mineralized Carbonate Powder

- Carbon-Mineralized Concrete Product

- Carbon-Mineralized Filler

Market segment by Carbon Sequestration Positioning

- Permanent Storage Material
- Low-Carbon Building Material
- Industrial Byproduct Upcycling Material
- Recycled Aggregate Material

Market segment by Application

- Concrete Blending
- Aggregate Replacement
- Block Manufacturing
- Cement Replacement
- Industrial Filler
- Solid Waste Resource Utilization

Major players covered

- Blue Planet Systems
- O.C.O Technology
- Paebbl
- CarbonFree
- Carbon Upcycling
- Fortera

neustark

CarbonBuilt

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Carbon Dioxide Mineralization Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Dioxide Mineralization Material, with price, sales quantity, revenue, and global market share of Carbon Dioxide Mineralization Material from 2021 to 2026.

Chapter 3, the Carbon Dioxide Mineralization Material competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Dioxide Mineralization Material breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Carbonation Product and by Application, with sales market share and growth rate by Carbonation Product, by

Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Carbon Dioxide Mineralization Material market forecast, by regions, by Carbonation Product, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon Dioxide Mineralization Material.

Chapter 14 and 15, to describe Carbon Dioxide Mineralization Material sales channel, distributors, customers, research findings and conclusion.

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