

Calcium Carbonate Market Size and Share Outlook - Forecast Trends and Growth Analysis Report 2025-2034

Market Report | 2025-07-28 | 171 pages | EMR Inc.

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Report description:

The global calcium carbonate market size attained a value of approximately USD 21.36 Billion in 2024. The market is further expected to grow in the forecast period of 2025-2034 at a CAGR of 4.30% , reaching a value of around USD 32.54 Billion by 2034.

Rising applications of calcium carbonate in the thriving automotive sector is fuelling the calcium carbonate market growth. Calcium carbonate is widely used for manufacturing plastisols and sealants for automotive applications for providing structural adhesive and waterproofing properties to automobiles. In addition, calcium carbonate is also a critical component for making paints and coatings for automobiles which is further adding to the market growth.

Over the forecast period, the anticipated increase in demand for passenger and commercial vehicles across the emerging economies is expected to escalate the market growth for calcium carbonate. New developments of calcium carbonate products and streamlined supply chains are also expected to catalyse the market for calcium carbonate.

Increasing Applications to Surge the Calcium Carbonate Market Growth

Calcium carbonate is an extremely versatile compound with a wide array of applications across sectors. The calcium carbonate global market is expected to be driven by uses of the mineral across sectors, including glass and ceramics , iron and steel, metallurgy, mining, sludge treatment, water treatment, animal feed and nutritional supplementation, and adhesives.

Therapeutic applications of calcium carbonate are contributing to the expansion of the overall calcium carbonate market. Calcium carbonate is used as a phosphate buffer in haemodialysis, an antacid in gastric hyperacidity, and a calcium supplement to prevent and treat osteoporosis. Other applications include food colouring, food firming, and fertiliser. Calcium carbonate is used as a filler as well as a coating pigment, owing to its distinct white colour, in paper, plastics , paints and coatings industries. Its brightness and light scattering properties make it valuable to the paper industry, where it is used as a cost-effective filler to brighten and

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smoothen opaque paper.

Calcium carbonate acts as an extender in paints and may account for nearly 30% of paint weight. The mineral is also used extensively as filler in adhesives and sealants. Carbon dioxide and lime, formed when calcium carbonate decomposes, is used in the steel, glass and paper industries.

In grocery stores, calcium carbonate is commonly found in several products, such as toothpaste, baking powder, wine, dough and dry-mixes for desserts. It is also used in animal feed and an active ingredient in agricultural lime. The mineral also has applications in water and waste treatment. Being an antacid, calcium carbonate is used in industrial environments to neutralise acidic conditions in soil as well as water. Rising demands for soil and water treatment are expected to increase the demand for the calcium carbonate market.

Calcium carbonate is also an important element in the building and construction industry. By itself, it serves as a building material, for example, in the form of marble, and as a component added to cement. It is used in making mortar which is utilised in bonding bricks, concrete blocks, stones, roofing shingles, rubber compounds, and tiles.

Global Calcium Carbonate Market Share by Type

Ground calcium carbonate (GCC) is obtained by mining of limestone. Precipitated calcium carbonate is industrially produced through the decomposition of limestone to calcium oxide, and consequent recarbonisation, or as a by-product of the Solvay process employed to manufacture sodium carbonate. PCC is considered purer than ground calcium carbonate and has different, customisable handling properties which is aiding the precipitated calcium carbonate market. At a regional level, North America, Europe, and the Asia Pacific are expected to be key markets for calcium carbonate.

Global Calcium Carbonate Market Segmentation

Calcium carbonate (CaCO_3), the carbonic salt of calcium, appears as a white, odourless powder or colourless crystals. It is nearly insoluble in water and occurs extensively in rocks across the world. Calcium carbonate is most commonly found in its natural forms such as chalk, limestone, and marble, created by the sedimentation of shells of small fossilised snails, shellfish, and coral over millions of years.

By type, the market is segmented into:

- Ground Calcium Carbonate (GCC)?
- ??- Breakup by Type Uncoated Ground Calcium Carbonate Coated Ground Calcium Carbonate
- Precipitated Calcium Carbonate (PCC)

Based on application, the market is classified into:

- Raw Substance for Construction Material
- Dietary Supplement
- Additive for Thermoplastics
- Filler and Pigment
- Component of Adhesives
- Desulphurisation of Fuel Gas
- Neutralising Agent in Soil

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- Others

By end use, the market is categorised into:

- Paper
- Paints and Coatings
- Adhesives and Sealants
- Construction
- Plastics
- Pharmaceuticals
- Automotive
- Agriculture
- Others

Based on region, the market is divided into:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Novel Useful Products to Boost the Calcium Carbonate Market

Rising world population has led to an increase in demand for comfortable and hygienic diapers. Finely ground particles of calcium carbonate are used to produce microporous breathable films used in diapers. The circular and porous nature of very fine grade of wet ground calcium carbonate leads to optimum moisture vapor transmission rate (MVTR), which means that air and water vapours pass through the film, but moisture stays in the diaper. This form of calcium carbonate is also used in other applications, such as in the inner layer of surgical gowns to keep the body cool, and in adult incontinence pads. Over the forecast period, the anticipated increase in incorporation of calcium carbonate in manufacturing healthcare products is likely to expand the calcium carbonate market.

Key Players in the Calcium Carbonate Market

The report presents a detailed analysis of the following key players in the market, looking into their capacity, and latest developments like capacity expansions, plant turnarounds, and mergers and acquisitions:

- Omya AG
- Minerals Technologies Inc.
- Huber Engineered Materials (HEM)
- Yuncheng Chemical Industrial Co., Ltd.
- Glc Minerals, LLC

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- Graymont Limited
- AGSCO Corp
- GCCP Resources Limited
- Greer Limestone Company
- Gulshan Polyols Ltd.
- Iowa Limestone Company.
- Imerys S.A.
- J.M. Huber Corporation
- Holcim Ltd
- Midwest Calcium Carbonates, LLC
- Mississippi Lime Company
- Parchem fine & specialty chemicals
- United States Lime & Minerals, Inc.
- Others

The EMR report gives an in-depth insight into the market by providing a SWOT analysis as well as an analysis of Porter's Five Forces model.

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