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Global Calcium Carbonate Market 2023

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Abstracts

Calcium carbonate is a chemical compound with the formula CaCO3. It is a common substance found in rocks, including limestone, marble, and chalk. In its natural form, calcium carbonate appears as a white or colorless mineral known as calcite.

Calcium carbonate has several important applications in various industries. The primary application of calcium carbonate lies in the pulp and paper industry, where it is extensively used as a paper filler. Alongside other additives like clay and titanium dioxide, calcium carbonate is incorporated into the papermaking process to enhance the brightness and opacity of the final product.

By adding calcium carbonate to the papermaking furnish, the resulting paper exhibits improved optical properties. The compound effectively increases the brightness of the paper, making it appear whiter and more visually appealing. Additionally, calcium carbonate enhances the opacity of the paper, preventing ink from bleeding through and ensuring clear and high-quality print results.

Moreover, calcium carbonate serves as a cost-effective filler material in the production of paper. Its availability in large quantities, low cost, and compatibility with other papermaking ingredients make it an ideal choice for the industry. By using calcium carbonate as a filler, paper manufacturers can achieve greater efficiency and cost savings without compromising the paper's overall quality.

Another significant application of calcium carbonate is the manufacturing of cement and concrete. When mixed with water and other materials, it reacts to form calcium hydroxide, which plays a key role in the hardening and setting of concrete.

In addition to its industrial uses, calcium carbonate is commonly utilized as a dietary supplement due to its high calcium content. It is often recommended for individuals who

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require additional calcium intake, such as during periods of growth, pregnancy, or certain medical conditions. Calcium carbonate also finds application in antacid medications. Due to its alkaline nature, it can neutralize excess stomach acid and provide relief from conditions like heartburn and indigestion.

Furthermore, calcium carbonate is employed as a filler and coating agent in the manufacturing of pharmaceuticals, cosmetics, and food products. It improves the texture and appearance of these products while also serving as a source of calcium fortification.

According to the latest data, the market size of the global calcium carbonate sector is expected to rise by USD 12.8 billion with a CAGR of 4.8% by the end of 2029.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global calcium carbonate market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

Market Segmentation
Product: ground calcium carbonate (GCC), precipitated calcium carbonate (PCC)
Application: adhesives and sealants, construction, paints and coatings, paper, plastics, others
Region: Asia-Pacific, Europe, North America, Middle East and Africa (MEA), South America

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the product, application, and region. The global market for calcium carbonate can be segmented by product: ground calcium carbonate (GCC), precipitated calcium carbonate (PCC). In 2022, GCC constituted approximately 74.3% of the total combined consumption of GCC and PCC. GCC is extensively utilized as a filler in various industries including paper, plastics, paints and coatings, adhesives and sealants, as well as rubber production. The widespread usage of GCC across these industries highlights its versatility and indispensability as a filler material. Manufacturers choose GCC due to its abundance, cost-effectiveness, and ability to enhance the performance and quality of their end products.

Within the paper industry, GCC serves as a crucial filler material, enhancing the

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properties of paper such as opacity, smoothness, and printability. It is incorporated into paper formulations to optimize cost-effectiveness without compromising the quality of the end product. The demand for GCC as a paper filler arises from its ability to improve paper strength and thickness while maintaining desired levels of brightness.

In the plastics industry, GCC acts as a reinforcing filler, contributing to the mechanical strength, dimensional stability, and impact resistance of plastic products. It is commonly utilized in the production of plastic films, pipes, tubes, and extruded profiles, offering enhanced performance characteristics.

Furthermore, GCC finds application in the paints and coatings industry, where it serves as an extender pigment. By incorporating GCC into paint formulations, manufacturers achieve improvements in opacity, durability, and viscosity control. GCC particles act as a cost-effective means to enhance the overall coverage and hiding power of paints, extending their longevity and providing a smooth finish.

In the adhesives and sealants sector, GCC serves as a thickening agent and filler, imparting stability, consistency, and adhesive strength to a wide range of bonding and sealing applications. The addition of GCC helps control the flow properties of adhesives and sealants, ensuring proper adherence and performance.

Moreover, GCC plays a role in rubber production, where it is utilized as a reinforcing filler. When incorporated into rubber compounds, it enhances mechanical properties, such as tensile strength, resilience, and abrasion resistance. This makes GCC a valuable ingredient in the manufacturing of tires, conveyor belts, shoe soles, and various rubber products.

Calcium carbonate market is further segmented by application: adhesives and sealants, construction, paints and coatings, paper, plastics, others. In 2022, paper remained the dominant application for both ground calcium carbonate and precipitated calcium carbonate, constituting over 42% of the overall market. However, its share is gradually decreasing due to the global decline in paper production. Calcium carbonate plays a dual role in paper production, serving as a filler and being used in paper coating formulations, primarily in printing and writing papers. Approximately two-thirds of the calcium carbonate utilized for paper is dedicated to paper coating, while the remaining one-third is used for paper filling.

Although there has been an overall growth in global paper and board production in recent years, the expansion has mainly been observed in container board and tissue,

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which are uncoated materials requiring lesser amounts of calcium carbonate. Conversely, the production of printing and writing paper has continued to decline.

To elaborate further, the decrease in printing and writing paper production can be attributed to various factors such as the digitization of information, increased use of electronic devices, and shifting consumer preferences towards digital mediums. As a result, the demand for coated papers used in printing and writing applications has been adversely affected.

On the other hand, there has been a rise in the production of container board, driven by the growing e-commerce industry and increased demand for corrugated packaging materials. Container board, which is typically uncoated, requires lower amounts of calcium carbonate compared to coated papers.

Furthermore, the production of tissue paper has witnessed significant growth due to factors like population growth, rising hygiene awareness, and changing lifestyles. Tissue paper products, such as toilet paper and facial tissue, have become essential commodities, leading to increased demand for uncoated papers in this segment.

Based on region, the calcium carbonate market is segmented into: Asia-Pacific, Europe, North America, Middle East and Africa (MEA), South America. Asia-Pacific held the largest revenue share in 2022, accounting for more than 42.5% of the total market. The region has a large population and is experiencing rapid industrialization and urbanization, leading to increased demand for various industries where calcium carbonate is widely used. These industries include paper, plastics, paints and coatings, construction, and agriculture.

The paper industry in countries like China, India, and Japan is witnessing substantial growth due to an expanding middle-class population and increased literacy rates. Calcium carbonate plays a vital role in the production of paper as a filler and coating material, making it a key component in the region's thriving paper industry.

Furthermore, the booming construction sector in Asia-Pacific, particularly in countries such as China and India, is fueling the demand for calcium carbonate. It is used in the production of cement, concrete, and other construction materials, providing strength, durability, and stability to infrastructure projects.

In addition, the plastics industry in the region is experiencing significant growth, driven by factors such as rising disposable income, changing lifestyles, and increased

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packaging requirements. Calcium carbonate is extensively utilized as a filler and reinforcing agent in plastics, enhancing their mechanical properties and offering cost-effective solutions.

Major Companies and Competitive Landscape
The report explores the recent developments and profiles of key vendors in the Global Calcium Carbonate Market, including AGSCO Corporation, Bihoku Funka Kogyo Co., Ltd., Blue Mountain Minerals, Calcinor, S.A., Carmeuse S.A., Cerne Calcium Company, Changzhou Calcium Carbonate Co., Ltd., GCCP Resources Limited, GLC Minerals, LLC, Graymont Limited, Greer Industries, Inc., Guilin Jinshan New Material Co. Ltd., Gulshan Polyols Ltd., Hebei Lixin Chemistry Co., Ltd., Imerys S.A., J.M. Huber Corporation, Lih Hsiang Industrial Corporation, Maruo Calcium Co., Ltd., Minerals Technologies Inc., Mississippi Lime Company, Nordkalk AB, Okutama Kogyo Co., Ltd., Omya AG, Pennsy Supply, Inc., Rajasthan Barytes Limited, SCHAEFER KALK GmbH & Co. KG, Shiraishi Kogyo Kaisha, Ltd., United States Lime & Minerals, Inc., Zhejiang Changshan Longshan Calcium Carbonate Co., Ltd., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

Scope of the Report
To analyze and forecast the market size of the global calcium carbonate market.
To classify and forecast the global calcium carbonate market based on product, application, region.
To identify drivers and challenges for the global calcium carbonate market.
To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global calcium carbonate market.
To identify and analyze the profile of leading players operating in the global calcium carbonate market.

Why Choose This Report
Gain a reliable outlook of the global calcium carbonate market forecasts from 2023 to 2029 across scenarios.
Identify growth segments for investment.
Stay ahead of competitors through company profiles and market data.
The market estimate for ease of analysis across scenarios in Excel format.
Strategy consulting and research support for three months.
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