

Ground Calcium Carbonate Market Assessment, By Particle Size [less than 500µm, 500-1000µm, more than 1000µm], By Purity Grade [High-purity (>98%), Mid-purity (96-98%), Low-purity (

Abstracts

Global Ground Calcium Carbonate Market size was valued at USD 15.8 billion in 2022 which is expected to reach USD 24.81 billion in 2030 with a CAGR of 5.8% for the forecast period between 2023 and 2030. Ground calcium carbonate (GCC), also known as limestone, is a common sedimentary rock which primarily comprises calcium carbonate minerals where the sedimentary rocks available on the earth's surface contribute to around 10% of limestone. A versatile, efficient material with extensive applications in flooring, paints, plastics, asphalt roofing, paper and agriculture. Certain expensive raw materials are substantially replaced by GCC which is often used to enhance durability and is considered an ideal extender or filler with low absorption qualities. Commercial grades of ground calcium carbonate have been developed for multiple applications such as animal and pet feeds, adhesives and sealants, paints and surface coatings, rubber, and elastomers, etc. The concrete's durability, appearance, and mechanical strength can substantially improve by adding ground calcium carbonate without altering the physical and mechanical properties.

Real Estate Construction Empowering Ground Calcium Carbonate (GCC)

Mechanical and durable properties of concrete used for building massive infrastructure can significantly control the strength of such constructions. Roller-compacted concrete (RCC) has been extensively used due to its prominent benefits like high-density construction technology, low application cost, and reduced cement contents. Ground calcium carbonate (GCC) is successively used as a cement replacement material in concrete to improve RCC's strength and cohesiveness characteristics. In addition to such improvement, GCC in RCC design can limit the negative effect of bleeding and shrinkage mechanisms.

Data published by Oxford Economics reported that in 2022, the construction market investment was around USD 9.7 trillion, where the major contribution accounts from the United States, China, and India. A report estimated by Global Powers of Construction (GPoC) stated that in 2022, the top 100 companies involved in construction generated revenues of over USD 1.511 trillion. The tremendous rise of real estate and construction

sector has generated impeccable market opportunities for ground calcium carbonate (GCC) globally to expand phenomenally.

Augmentation of Paints and Coatings Applications by Utilizing Benefits of GCC

Numerous properties of ground calcium carbonate (GCC) incorporate it as a significant additive in paints and coatings to densify the product. GCC is used as an extender for metal oxides, impart characteristics to either reduce or enhance gloss and most importantly as a rheological modifier. GCC is broadly employed as a bright, inexpensive extender while controlling the rheology of paint formulations. GCC is prominently used throughout the range of water- and solvent-based coatings for exterior and interior coating applications. GCC in painted films formulation are potentially active that able to meet every requirement with impeccable adhesion, high impact resistance, suitable hardness, excellent opacity, matt visual gloss, etc.

A report published by Paints & Coatings Industry reported that in March 2022, the decorative business for Asian Paints accounted for around 84.2% of revenue while a 9% share contributed from international business. In spring 2022, PPG has announced the commencement of new architectural paint and coatings color automation laboratory in Milan, Italy by sanctioning an investment of around USD 2.1 million that substantially will enhance the developing novel paint formulations within a short time.

Animal Feed and Nutrition is Progressively Improved by Incorporating GCC

An indispensable requirement is growing to achieve optimal health for farm animals which subsequently demands significant calcium content in the feed. Ground calcium carbonate (GCC) utilized as a prominent compound in animal feed that increases the calcium content for proper nerve function, bone development that led to produce nutritional milk and eggs. Particle size, purity, and brightness are important parameters for selecting GCC according to animal feed and nutrition. Veterinary professionals widely recommend that all livestock should be fed with specific calcium supplements to support healthy animal nutrition.

The Good Food Institute report states that in 2021 fermentation companies raised around USD 1.69 billion that focuses on alternative protein sector. In 2021, BASF SE successfully expanded Vitamin A plant in Germany to provide effective vitamin A formulation in animal nutrition. For 2023 global pork exports has estimated to increase to 10.8 million tons as the United States and Brazil became an extreme source of shipments. In 2023 global chicken meat production increases up to 103.5 million tons

majorly shared by the United States.

Impact of COVID-19

The outbreak of COVID-19 has severe devastating affect that make entire humankind vulnerable to infectious disease. Different sectors were economically impacted, leading to supply chain disruptions, shutdown of ongoing constructions due to labor force reduction, etc. The imposition of several stringent regulations including entire lockdown affected the rising of ground calcium carbonate (GCC) market. The major sector utilizing GCC is the construction industry that has instantly halted with the spreading of COVID-19 virus. The paints and coating industries involving GCC were also severely impacted as there were reduced number of usual home decor applications. With the decreasing number of COVID-19 cases the government comes up with effective solution to ease the lockdown conditions. To encounter the destruction created by the pandemic companies started to put enormous efforts to restart the usual operations which soon created huge market opportunities for the ground calcium carbonate.

Impact of Russia-Ukraine War

The invasion of Russia on Ukraine has led to unprecedented impact on various sectors subsequently led to deterioration of global economy including agriculture. The real estate and construction business was severely troubled due to the aggression that led to shut down of significant construction because unavailability of capital. The imperative factors consequently deteriorated the applications of ground calcium carbonate in different sectors. The measures adopted by significant government agencies to overcome the disaster of aggression and retain the economic instability.

Key Players Landscape and Outlook

The ground calcium carbonate market is successfully growing with rising applications such as real estate, paints and coatings, animal feed takes, etc. Mississippi Lime Company is a leading company in manufacturing high purity calcium carbonate where ground calcium carbonate (GCC) is mined from pure limestone deposits with an aggregate purity of 98.5% calcite ore. Their registered CalCarb calcium carbonate products are extensively used from glass manufacturing to agriculture. CalCarb R1 category is a highly pure regular size 16 mesh calcium carbonate product along with important metal minerals considered an excellent choice for glass-making applications as well as industrial process incorporating pure limestone. Another category CalCarb R2 is a prominent chemical grade calcium carbonate resembles high purity sized at 200

mesh which successively used in acid neutralization, construction, and environmental applications. In September 2022, Mississippi Lime Company significantly acquired Singleton Birch which drive the global expansion that led to innovation, growth and sustainability.

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