

# **India Calcium Carbonate Market By Type (Ground Calcium Carbonate, Precipitated Calcium Carbonate), By End User (Paper, Adhesives & Sealants, Plastics, Paints & Coatings, Construction, Others), By Region, Competition, Forecast and Opportunities, 2019-2029**

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## **Abstracts**

India Calcium Carbonate Market has reached reach USD 2.07 billion by 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 3.60% through 2029. The calcium carbonate market in India has witnessed a significant surge in recent years, driven by a multitude of factors. One of the key drivers is the increasing exports, as Indian calcium carbonate products are gaining recognition and demand in international markets. Additionally, the robust domestic demand, particularly from the pulp and paper industry, has contributed to the market's rapid expansion.

Within the domestic market, the Indian Paper Manufacturers Association (IPMA) has reported a steady annual growth rate of around 6-7% in the pulp and paper industry. This sustained growth has further fueled the demand for calcium carbonate, as it plays a crucial role as a filler and coating pigment in the industry. The continuous expansion of the paper industry directly influences the need for calcium carbonate, creating a symbiotic relationship between the two sectors.

Moreover, the versatile applications of ground and precipitated calcium carbonate have contributed to their widespread use in various sectors across India. Industries such as plastics, adhesives, sealants, and paint have recognized the benefits of calcium carbonate in enhancing their products' quality and performance. As these sectors also experience growth and development, the demand for calcium carbonate continues to rise, presenting abundant opportunities for market players.

In conclusion, the Indian calcium carbonate market is on an upward trajectory, fueled by increasing exports and robust domestic demand. The expanding pulp and paper industry, along with the growth in other sectors, further amplifies the need for calcium carbonate. With a promising outlook, the market presents a plethora of opportunities for industry players to capitalize on this upward trend.

## Key Market Drivers

### Growing Demand of Calcium Carbonate in Construction Industry

The calcium carbonate market in India is currently experiencing substantial growth, primarily driven by various sectors such as plastics, paper, and adhesives. However, one sector that stands out in significantly contributing to this demand is the construction industry. With the growing use of calcium carbonate in construction, it has emerged as a key driver for the expansion of the Indian calcium carbonate market.

Calcium carbonate, a versatile mineral, finds extensive use in the construction industry. It serves as a filler in concrete, enhancing its durability, appearance, and overall cost-effectiveness. Additionally, it plays a crucial role in the manufacturing of glass, a widely utilized material in the construction sector.

Moreover, calcium carbonate is a vital component in cement production. It reacts with silicon dioxide to produce calcium silicate, which serves as the primary ingredient in cement.

The construction industry in India is currently experiencing a boom, driven by factors such as urbanization, infrastructure development, and government initiatives like 'Housing for All' and the development of smart cities. This rapid growth has led to an increased demand for construction materials, including calcium carbonate.

Furthermore, the emphasis on sustainable construction practices is also contributing to the demand for calcium carbonate. As a sustainable, low-impact, and often locally sourced material, it can significantly contribute to the environmental performance of construction projects.

Looking ahead, the outlook for the calcium carbonate market in India remains positive, primarily driven by the burgeoning construction industry. As infrastructure development continues at a rapid pace and the focus on sustainable construction increases, the demand for calcium carbonate is expected to rise further.

In conclusion, the growth of India's construction industry plays a pivotal role in propelling the demand for calcium carbonate. As the sector continues to expand, it is expected to fuel the growth of the calcium carbonate market, providing ample opportunities for market players.

### Growing Demand of Calcium Carbonate in Plastic Industry

Calcium carbonate has emerged as an indispensable ingredient in the plastic industry, owing to its multifaceted benefits. Primarily used as a filler, it not only adds volume to plastic products but also serves as a cost-effective solution, contributing to reduced production costs. Moreover, it enhances the physical properties of plastic items, including hardness, tensile strength, and heat resistance. These remarkable attributes make calcium carbonate an irreplaceable component in the production of various plastic products such as PVC pipes, films, and sheets.

In the context of India, the plastic industry is experiencing rapid growth, fueled by the expansion of sectors like packaging, construction, automotive, and electronics. This surge in demand across diverse industries has led to an increased need for calcium carbonate as a key raw material. Furthermore, the government's proactive initiatives promoting the use of bio-plastics and the growing awareness about sustainable practices have further propelled the demand for calcium carbonate. As a naturally occurring mineral, calcium carbonate is widely perceived as an eco-friendlier alternative compared to other fillers, aligning with the global shift towards sustainable manufacturing practices.

In conclusion, the escalating demand for calcium carbonate in the plastic industry is playing a pivotal role in fostering the growth of the Indian calcium carbonate market. As the industry continues to expand and diversify, the demand for calcium carbonate is expected to witness a significant upsurge in the years to come. This trend underscores the crucial role of calcium carbonate in the sustainable development of the plastic industry, in line with the prevailing market dynamics and environmental consciousness.

### Key Market Challenges

#### Lack in Availability of Raw Materials

Calcium carbonate, a vital component in various industries, is derived from natural resources abundant in certain regions of India, such as limestone and marble. These

precious resources serve as the foundation of the calcium carbonate industry, supporting its growth and development. However, the availability of these raw materials is gradually dwindling, presenting a formidable challenge to the market.

One of the primary obstacles lies in the stringent environmental regulations governing the extraction of these raw materials. Mining activities, necessary for obtaining limestone and marble, can have adverse effects on the environment, including deforestation, habitat destruction, and water pollution. In response, the Indian government has implemented strict regulations to mitigate these environmental impacts, resulting in a decrease in the availability of these essential raw materials.

Furthermore, the demand for calcium carbonate has been witnessing a significant surge, surpassing the rate at which raw materials are supplied. This growing demand-supply imbalance further compounds the issue of raw material scarcity, intensifying the challenge faced by the industry.

The scarcity of raw materials directly influences the cost of production. As the prices of raw materials rise, manufacturers are compelled to increase the prices of their calcium carbonate products. This, in turn, may potentially lead to a decrease in demand, consequently affecting the overall growth of the calcium carbonate market.

Moreover, the scarcity of raw materials also impacts the competitive landscape of the market. Smaller players, unable to cope with the escalating costs of raw materials, may find themselves forced out of the market, ultimately leading to market consolidation.

Given these circumstances, the calcium carbonate industry faces significant hurdles in ensuring a consistent supply of raw materials while meeting the rising demand. Strategies such as exploring alternative sources and implementing sustainable mining practices will be crucial in mitigating the challenges posed by raw material scarcity and maintaining the growth of the market in the long run.

## Key Market Trends

### Surge in Technological Advancements

The production of calcium carbonate has undergone significant technological transformations over the years, leading to improved efficiency and sustainability. Traditional methods of mining and processing have been gradually replaced by more advanced technologies that offer eco-friendly alternatives. For example, innovative

techniques now allow for the extraction of calcium carbonate from waste materials, reducing the need for conventional mining practices and minimizing environmental impact.

Moreover, advancements in processing technologies have not only increased the efficiency but also enhanced the quality of calcium carbonate production. These improvements have expanded the range of applications for calcium carbonate, fostering its demand across various industries. From construction materials to pharmaceuticals and environmental solutions, calcium carbonate's versatile properties make it a valuable resource in numerous sectors.

Looking ahead, the trend of technological advancements in the calcium carbonate market is expected to continue. Emerging technologies, such as nanotechnology, hold the potential to revolutionize the industry. Nanoscale calcium carbonate exhibits unique characteristics that make it suitable for a wide array of applications, including drug delivery systems, wastewater treatment, and carbon capture technologies. These innovative uses of calcium carbonate have the potential to address pressing environmental and societal challenges.

Furthermore, digital technologies are also projected to play a significant role in shaping the future of the calcium carbonate market. Digital platforms can facilitate the trading of calcium carbonate, making the market more accessible to buyers and sellers worldwide. This increased accessibility and transparency can foster collaboration, innovation, and sustainable development within the industry.

In summary, the ongoing advancements in technology, including both physical and digital innovations, are poised to drive the growth and evolution of the calcium carbonate market. These advancements not only contribute to improved efficiency and sustainability but also open up new opportunities for its utilization in various sectors, paving the way for a more vibrant and dynamic future.

## Segmental Insights

### Type Insights

Based on the category of type, the Ground Calcium Carbonate segment emerged as the dominant player in the Indian market for Calcium Carbonate in 2023. The remarkable growth of GCC powder can be attributed to several factors. Firstly, when compared to other inorganic powders, GCC powder stands out due to its affordability.

This cost-effectiveness makes it a popular choice among manufacturers and industries. Additionally, GCC powder boasts superior qualities such as exceptional whiteness, inertness, and incombustibility. These characteristics make it an ideal additive for various applications.

Moreover, GCC powder exhibits low oil- and water adsorption, further enhancing its versatility and performance. It finds frequent utilization in polymer composites, where it not only enhances the physical properties of the composites but also improves their workability. By incorporating GCC fillers, manufacturers can significantly reduce the cost of polymer composites by replacing expensive resins with more affordable alternatives.

Overall, the unique combination of affordability, superior qualities, and improved workability makes GCC powder a preferred choice for industries seeking cost-effective solutions without compromising on performance or quality.

## End User Insights

The paper segment is projected to experience rapid growth during the forecast period. Calcium carbonate, a common mineral compound, is commonly added as a filler to the paper pulp or applied as a coating pigment during the papermaking process. Its addition not only enhances the brightness and opacity of the paper but also contributes to its overall smoothness and printability. By filling in the gaps and irregularities in the paper fibers, calcium carbonate helps create a more uniform and flawless surface, ensuring optimal printing results.

Although the rise of the Internet has had a significant impact on the print media market, it has not diminished the demand for paper in other essential applications. For instance, in the packaging industry, where durability and protective qualities are paramount, paper continues to be a preferred material. Similarly, tissue paper, with its softness and absorbency, remains a staple in various personal care and hygiene products.

Despite the evolving digital landscape, the versatile and indispensable nature of paper persists, serving a wide range of purposes beyond traditional print media.

## Regional Insights

West India emerged as the dominant player in the India Calcium Carbonate Market in 2023, holding the largest market share in terms of value. West India, particularly states like Gujarat and Maharashtra, boast a robust industrial base encompassing sectors



such as plastics, paper, construction, and pharmaceuticals. These industries are major consumers of calcium carbonate, using it as a filler material or for enhancing product properties. The high concentration of these industries in West India creates a substantial demand for calcium carbonate, driving the growth of the market in this region.

Furthermore, the demand for calcium carbonate in West India is also fueled by its versatile applications across various industries. For instance, in the plastics sector, calcium carbonate is utilized as a cost-effective filler material, improving the strength and durability of plastic products. In the paper industry, it acts as a coating agent, enhancing the smoothness and brightness of paper surfaces. In construction, calcium carbonate is employed in the production of cement, which significantly contributes to the region's infrastructure development. Additionally, the pharmaceutical industry utilizes calcium carbonate as an active ingredient in antacid medications, catering to the healthcare needs of the growing population.

Moreover, West India's abundant natural resources, particularly limestone deposits, play a vital role in the production of calcium carbonate. The state of Gujarat stands out for its substantial limestone reserves, ensuring a steady supply of raw materials. This availability not only reduces production costs but also minimizes transportation expenses, making the region highly cost-effective for calcium carbonate production.

In addition to its thriving industrial base and rich natural resources, the strategic location of West India adds to its market advantage. With an extensive coastline, the region enjoys easy access to major domestic and international markets. This facilitates the export of calcium carbonate to countries in the Middle East and Africa, opening up new avenues for market expansion and growth.

Overall, the combination of a diverse industrial base, abundant natural resources, and strategic location makes West India a thriving hub for the production and export of calcium carbonate.

### Key Market Players

Aranthangi Chemicals Pvt. Ltd. (ACPL)

Calchem Industries, Ltd.

Chemical & Mineral Industries Pvt. Ltd.

Indo Chemicals Pvt. Ltd.

Tata Chemicals Limited

Mountain Minerals and Microns, Ltd.

Report Scope:

In this report, the India Calcium Carbonate Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Calcium Carbonate Market, By Type:

Ground Calcium Carbonate

Precipitated Calcium Carbonate

India Calcium Carbonate Market, By End User:

Paper

Adhesives & Sealants

Plastics

Paints & Coatings

Construction

Others

India Calcium Carbonate Market, By Region:

North India

East India



West India

South India

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Calcium Carbonate Market.

### Available Customizations:

India Calcium Carbonate Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

### Company Information

Detailed analysis and profiling of additional market players (up to five).

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