







[Precipitated Calcium Carbonate \(PCC\)](#) is a versatile and widely used mineral in various industries, including paper, plastics, pharmaceuticals, and paints. It is manufactured through a process that involves the precipitation of calcium carbonate from a purified solution of calcium hydroxide. This process results in a high-purity product with controlled particle sizes and morphologies, making it ideal for specific applications.

Sudarshan Group: A Leading Manufacturer

Among the prominent manufacturers of PCC is the [Sudarshan Group](#), a company known for its commitment to quality, innovation, and customer satisfaction. Established with a vision to provide top-notch mineral solutions, Sudarshan Group has carved a niche for itself in the industry by delivering consistent and high-quality PCC to a global clientele.

The Manufacturing Process

The production of Precipitated Calcium Carbonate at Sudarshan Group involves a series of meticulous steps to ensure the highest quality product. The process begins with the selection of high-purity limestone, which is then subjected to calcination at high temperatures. This step produces quicklime (calcium oxide), which is then slaked with water to form calcium hydroxide, also known as slaked lime.

The calcium hydroxide solution is then subjected to a carbonation process, where carbon dioxide is bubbled through the solution. This causes the calcium hydroxide to precipitate as calcium carbonate. The precipitated calcium carbonate is then filtered, washed, and dried to achieve the desired specifications. Sudarshan Group employs advanced technology and stringent quality control measures at every stage of this process to ensure that the final product meets the highest standards of purity and performance.

Applications of Precipitated Calcium Carbonate

PCC is used in a wide range of applications due to its unique properties. In the paper industry, it is used as a filler and coating material to enhance the brightness, opacity, and smoothness of paper. The plastics industry utilizes PCC to improve the mechanical properties and processing characteristics of various plastic products. In pharmaceuticals, PCC is used as an inert filler in tablets and as a dietary calcium supplement. The paint industry benefits from the use of PCC as an extender and to improve the rheological properties of paint formulations.



Sudarshan Group's PCC products are tailored to meet the specific needs of these industries, offering customized solutions that enhance product performance and add value to the end products.

Quality and Innovation

One of the key factors that set Sudarshan Group apart as a leading PCC manufacturer is its unwavering commitment to quality and innovation. The company invests heavily in research and development to continuously improve its manufacturing processes and develop new applications for its products. This focus on innovation ensures that Sudarshan Group remains at the forefront of the industry, delivering cutting-edge solutions that meet the evolving needs of its customers.

Quality control is a cornerstone of Sudarshan Group's operations. The company has implemented rigorous quality assurance protocols that encompass every stage of the production process, from raw material selection to final product testing. This ensures that every batch of PCC produced meets the highest

