

Calcium Hydroxide Market Report and Forecast 2025-2034

Market Report | 2025-07-28 | 157 pages | EMR Inc.

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Report description:

The global calcium hydroxide market is expected to grow at a CAGR of 3.30% during the period 2025-2034.

Global Calcium Hydroxide Market Likely to be Driven by Applications in Multiple Sectors

The global market for calcium hydroxide is projected to be driven by demand from several sectors, including construction, water treatment, food processing, and treatment of gases. Major markets include North America, Europe, and Asia.

Calcium hydroxide Ca(OH)_2 , also known as slaked lime, is obtained through the action of water on calcium oxide. It may appear as an odourless white powder or in granular form, and is slightly bitter and alkaline in taste. If mixed with water, it dissolves in a small proportion, giving a solution called limewater; the remaining suspension is called milk of lime. Calcium hydroxide easily absorbs carbon dioxide from the air, changing to calcium carbonate (CaCO_3). A relatively economical chemical, calcium hydroxide is widely used in production processes that require a base.

Uses of calcium hydroxide include those as an industrial alkali and a component of mortars, plasters, and cement. It is also used in the kraft paper process and as a flocculant in sewage treatment. Uses further entail food processing and medical and dental applications. For example, calcium hydroxide is often present in root canal fillings.

Pickling lime, also known as food-grade calcium hydroxide, is at times used to give pickles an extra crunch. However, pickling lime has been associated with botulism - a rare condition that may lead to paralysis - therefore, its use for pickling is avoided.

Calcium hydroxide is used to process corn, especially in Central America. Raw corn kernels are soaked in water mixed with calcium hydroxide; the process facilitates processing corn into flour, and releases important nutrients such as niacin from corn. Several products made with corn flour (sopes, tortillas, tamales, etc.) carry calcium hydroxide.

Calcium hydroxide is also employed to process some sugars. Sugar cane and sugar beets are at times prepared through

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carbonatation - a refining process in which an untreated sugar solution is mixed with calcium hydroxide. The process removes impurities and enhances product stability.

Calcium hydroxide is used to fortify fruit juices with calcium and enhance nutritional value.

Calcium hydroxide is very effective in capturing acidic pollutants from industrial smoke and vapours, making it an important component in the management of gases. It is also used as an additive in animal feeds to enhance nutritional value, and also as a disinfectant in animal-pens.

In the sugar-industry it can be used to precipitate out impurities and to obtain purified sucrose.

Specialized Product Offerings Expected to Stimulate the Market

Several leading firms offer innovative and technologically advanced solutions containing calcium hydroxide to meet various industrial needs. For example, NATURDEP S by Calcinor is designed for use in the environmental sector, particularly for the treatment of and decontamination of gases. CALHIDROX and STABYCAL S by Calcinor are intended to treat water used for human consumption, and polluted surfaces (also in roads, construction, mortar and asphalts) respectively.

Waste incineration and other industrial processes produce flue gases which contain pollutants such as sulfur oxides (SO₂ + SO₃), hydrochloric acid (HCl), hydrofluoric acid (HF), and heavy metals, dioxins and furans. Lime, hydrated lime and limestone-based products effectively capture contaminants. In combination with other components, they help in removing micro-pollutants. Sorbacal by Lhoist is a product portfolio for the removal of major acid pollutants (SO_x, HCl and HF). Sorbacal Micro products are used to remove micro-pollutants (PCCD/DF, PAH, PCB and Hg).

Global Calcium Hydroxide Market Segmentation

Calcium Hydroxide Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

By type, the market is segmented into:

- Dry Powder
- Slurry
- Others

By grade, the market is classified into:

- Industrial
- Food
- Others

By end-use, the market is segmented into:

- Water Treatment
- Construction
- Environmental Gas Treatment
- Food & Beverage

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- Pulp & Paper
- Chemicals
- Agriculture
- Zinc
- Others

By region, the market is divided into:

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

Key Industry Players in the Global Calcium Hydroxide 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:

- Carmeuse Americas
- Graymont Limited
- Lhoist Group
- NAGASE Specialty Materials NA LLC
- Hydrite Chemical Co.
- GFS Chemicals, Inc.
- Others

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

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