

# Calcium Peroxide Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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## Abstracts

### Calcium Peroxide Market Summary

#### Introduction

Calcium peroxide is a solid peroxide compound known for its slow-release oxygen properties, making it a valuable material across multiple industries. This white or yellowish powder is produced by reacting calcium hydroxide with hydrogen peroxide, offering applications in food preservation, oral care, agriculture, aquaculture, and water treatment. Its ability to release oxygen gradually enhances soil aeration, supports microbial activity, and acts as a bleaching or disinfecting agent, positioning it as an eco-friendly alternative to harsher chemicals. The market for calcium peroxide is characterized by its niche yet essential role, driven by demand for sustainable solutions in food safety, environmental management, and personal care. Growth is fueled by increasing agricultural productivity needs, water remediation efforts, and regulatory support for non-toxic additives, though its smaller scale reflects competition from other peroxides. The global calcium peroxide market is estimated to reach USD 35-75 million in 2025, with a projected CAGR of 2.5%-4.5% from 2025 to 2030, indicating moderate expansion tied to specialized applications.

#### Market Size and Growth Forecast

Valued at USD 35-75 million in 2025, the calcium peroxide market is expected to grow at a CAGR of 2.5%-4.5% through 2030. This growth reflects steady demand in agriculture and water treatment, balanced by limited scalability and competition from substitutes like hydrogen peroxide and sodium peroxide.

## Regional Analysis

**Asia Pacific:** Growth is estimated at 3.5%-5.0%, led by China, where agriculture and aquaculture dominate consumption. Trends favor cost-effective soil and water solutions, with India also contributing due to food safety needs.

**Europe:** The market grows at 2.0%-3.5%, with Germany and France driving demand in food and oral care applications. Sustainability trends support its use, though growth is modest due to mature markets.

**North America:** Growth is projected at 2.0%-3.0%, with the United States leading in water treatment and agriculture. Trends indicate a focus on eco-friendly additives, tempered by alternative options.

**Rest of the World:** This segment grows at 2.5%-4.0%, with Brazil and Southeast Asia notable for aquaculture and agriculture uses. Trends lean toward affordable environmental solutions.

## Application Analysis

**Food:** Growing at 2.0%-3.5%, calcium peroxide serves as a dough conditioner and preservative, with trends favoring clean-label food additives.

**Oral Care:** With a growth rate of 2.5%-4.0%, it's used in toothpaste for whitening and antimicrobial effects, driven by rising personal care demand.

**Agriculture & Aquaculture:** Growing at 3.0%-5.0%, this segment uses it for soil aeration and water oxygenation, with trends tied to sustainable farming practices.

**Water Treatment:** Growth is 2.5%-4.0%, leveraging its oxygen release for remediation, with trends supporting eco-friendly treatment methods.

**Others:** Including industrial uses, this grows at 1.5%-3.0%, with limited but stable demand.

## Key Market Players

**Evonik Industries:** Based in Germany, Evonik offers calcium peroxide for diverse

applications, emphasizing innovation and sustainability.

**Solvay:** Headquartered in Belgium, Solvay provides high-quality peroxides, including calcium peroxide, for food and environmental uses.

**Zhejiang Jiehua New Materials Co. Ltd.:** Located in China, with a 3,500-ton capacity, it targets agriculture and water treatment markets with efficient production.

**Henan Huize Biotechnology Co. Ltd.:** Also in China, this firm supplies calcium peroxide for food and aquaculture, focusing on regional needs.

These players compete on quality and application-specific solutions, driving market growth.

### Porter's Five Forces Analysis

**Threat of New Entrants:** Low, due to high technical barriers and established supply chains.

**Threat of Substitutes:** High, with hydrogen peroxide and other oxygen-releasing agents competing.

**Bargaining Power of Buyers:** Moderate, as niche applications limit options, but substitutes exist.

**Bargaining Power of Suppliers:** Moderate, with raw material availability concentrated in key regions.

**Industry Rivalry:** Moderate, with competition focused on cost and efficacy among a few key players.

### Market Opportunities and Challenges

#### Opportunities

Rising demand for sustainable agriculture and aquaculture solutions boosts adoption.

Growth in clean-label food and oral care products supports market expansion.

Environmental remediation needs enhance water treatment applications.

## Challenges

Competition from cheaper peroxides limits market share.

High production costs constrain scalability.

Regulatory restrictions on chemical use in food and water pose risks.

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