

Calcium Sulfate Market By Form (Anhydrous, Hydrated) , By Grade (Technical Grade, Food Grade, Pharma Grade, Others) By End-Use Industry (Food and Beverages, Cosmetic and Personal Care, Building and Construction, Chemical and Petrochemical, Pulp and Paper, Agriculture, Pharmaceutical and Healthcare, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Calcium Sulfate Market

The calcium sulfate market was valued at \$2.3 billion in 2023 and is projected to reach \$3.6 billion by 2033, growing at a CAGR of 5% from 2024 to 2033.

Calcium sulfate is an inorganic chemical compound with the chemical formula, CaSO_4 . It commonly exists in a hydrated form such as gypsum and Plaster of Paris. The poor solubility of calcium sulfate in water results in its permanent hardness upon contact. There are several applications of calcium sulfate in diverse fields, including construction, baking, personal care products, dentistry, fertilizers, and decorative objects.

Rapid urbanization has increased the number of ongoing infrastructure projects across the globe. This has fueled the need for calcium sulfate and augmented the growth of the market. In addition, rise in awareness regarding the ability of the compound to improve soil quality by neutralizing the salinity or alkalinity has boosted its adoption in agricultural farms, thereby propelling the growth of the calcium sulfate market. The trend

of circular economy is currently gaining prominence in the market. For instance, gypsum is 100% recyclable, hence its waste from different industries is being collected and processed for the manufacturing of new products.

Despite its recyclability, the mining of gypsum causes notable ecological disruptions such as soil erosion and habitat destruction. This discourages the usage of calcium sulfate and associated products, hampering the development of the market. Moreover, the compound poses the threat of chronic respiratory disorders to industrial workers, which restrains the growth of the market. On the contrary, explorations regarding the ability of calcium sulfate to cure fracture-related infections are projected to present remunerative opportunities for the market. For instance, an article published on PubMed Central—a free digital archive of scholarly articles—on March 2023 demonstrates that antibiotic-impregnated calcium sulfate (AICS) exhibits a high potential to eradicate infection and facilitate the joining of bones. In the research, 100% of the patients injected with AICS were healed completely without requiring systemic antibiotics.

Segment Review

The calcium sulfate market is segmented into form, grade, end-use industry, and region. On the basis of form, the market is bifurcated into anhydrous and hydrated. Depending on grade, it is divided into technical grade, food grade, pharma grade, and others. As per end-use industry, it is classified into food & beverages, cosmetic & personal care, building & construction, chemical & petrochemical, pulp & paper, agriculture, pharmaceutical & healthcare, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of form, the anhydrous segment held a high share of the market in 2023.

Depending on grade, the technical grade segment dominated the market in 2023.

As per end-use industry, the building & construction segment acquired a high stake in the market in 2023.

Region wise, Asia-Pacific was the highest revenue generator in 2023.

Competition Analysis

The leading players operating in the global calcium sulfate market include LafargeHolcim Ltd, Knauf A/S, American Gypsum Company LLC, National Gypsum Company, Saint-Gobain Group, Carmeuse Group SA, Graymont Limited, Mississippi Lime Company, LLC, Honeywell International Inc., and MAPEI S.p.A. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Analysis of raw material in a product (by %)

Manufacturing Capacity

Consumer Buying Behavior Analysis

Product Benchmarking / Product specification and applications

Supply Chain Analysis & Vendor Margins

Upcoming/New Entrant by Regions

Technology Trend Analysis

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Strategic Recommendations

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Additional country or region analysis- market size and forecast

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By Form

Anhydrous

Hydrated

By Grade

Technical Grade

Food Grade

Pharma Grade

Others

By End-Use Industry

Food and Beverages

Cosmetic and Personal Care

Building and Construction

Chemical and Petrochemical

Pulp and Paper

Agriculture

Pharmaceutical and Healthcare

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

LafargeHolcim Ltd

knauf a/s

American Gypsum Company LLC

National Gypsum Company

Saint-Gobain Group

Carmeuse Group SA

Graymont Limited

Mississippi Lime Company, LLC

Honeywell International Inc.

MAPEI S.p.A

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