

# **Synthetic Gypsum Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Product Type (Flue Gas Desulfurization (FGD) Gypsum, Fluorogypsum, Phosphogypsum), By Application (Drywall, Cement, Soil Amendments), By Region, By Competition, 2020-2030F**

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## **Abstracts**

### Market Overview

The Global Synthetic Gypsum Market was valued at USD 4.67 Billion in 2024 and is projected to reach USD 6.88 Billion by 2030, growing at a CAGR of 6.52% during the forecast period. Synthetic gypsum is chemically identical to natural gypsum—calcium sulfate dihydrate—but is produced as a byproduct of industrial processes, most notably from flue gas desulfurization (FGD) in coal-fired power plants. Its utilization helps reduce reliance on mined gypsum and supports environmental sustainability by repurposing industrial waste. Various types, including FGD gypsum, phosphogypsum, and fluorogypsum, are used across diverse applications such as drywall manufacturing, cement production, agriculture, and construction materials. Its adoption is growing due to advantages like consistent quality, moisture resistance, and the potential to reduce environmental impacts in both manufacturing and end-use. As industries and governments push toward circular economy practices and sustainable construction, synthetic gypsum is emerging as a preferred alternative in several key sectors.

### Key Market Drivers

#### Environmental Regulations and Sustainable Construction Practices

The synthetic gypsum market is significantly driven by stringent environmental regulations and the rising focus on sustainable construction. Regulatory efforts to control sulfur dioxide (SO<sub>2</sub>) emissions from coal-fired power plants have led to the installation of flue-gas desulfurization systems, which in turn produce synthetic gypsum. Rather than being discarded as industrial waste, this gypsum is now repurposed as a valuable material in construction—particularly in wallboard, plaster, and cement production. The reuse of synthetic gypsum supports waste reduction goals and aligns with circular economy principles. Additionally, the adoption of green building certifications and sustainable procurement policies is increasing the demand for environmentally friendly alternatives to natural gypsum. The consistent composition and cost-effectiveness of synthetic gypsum make it a strong candidate in green construction practices, helping meet sustainability benchmarks without compromising performance.

## Key Market Challenges

### Regulatory and Environmental Concerns Related to Source Emissions

A major challenge to the synthetic gypsum market is its dependence on flue gas desulfurization systems in coal-fired power plants—facilities that are increasingly being phased out or scaled down in response to the global energy transition. As governments implement stricter environmental policies and encourage cleaner energy sources, the number of operational coal plants, and by extension, FGD systems, is declining. This poses a risk to the supply stability of synthetic gypsum. Additionally, concerns over contaminants such as heavy metals in synthetic gypsum—especially in agricultural and water-sensitive applications—are drawing regulatory scrutiny. These concerns may prompt stricter usage guidelines or require costly purification measures, adding to compliance and production costs for manufacturers.

## Key Market Trends

### Rising Demand for Sustainable Construction Materials

One of the leading trends influencing the synthetic gypsum market is the growing emphasis on sustainable and eco-conscious construction materials. As industries adopt circular economy practices, synthetic gypsum—being a recycled byproduct—has gained popularity for its environmental benefits. It reduces the need for natural gypsum mining, cuts down on industrial waste, and supports greener manufacturing processes. Builders and developers are increasingly integrating synthetic gypsum into drywall and cement applications to meet green building certifications like LEED and BREEAM. Moreover, its

use contributes to energy efficiency and carbon reduction goals in construction, particularly in projects prioritizing resource conservation and lifecycle impact mitigation. This trend is further reinforced by the consistent quality and versatility of synthetic gypsum across a range of building materials.

### Key Market Players

USG Corporation

National Gypsum Company

Knauf Gips KG

Saint-Gobain S.A.

Eagle Materials Inc.

LafargeHolcim Ltd.

Georgia-Pacific LLC

FEECO International, Inc.

Synthetic Materials LLC

Gyptech Systems Pvt. Ltd.

### Report Scope:

In this report, the Global Synthetic Gypsum Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Synthetic Gypsum Market, By Product Type:

Flue Gas Desulfurization (FGD) Gypsum

Fluorogypsum

Phosphogypsum

Synthetic Gypsum Market, By Application:

Drywall

Cement

Soil Amendments

Synthetic Gypsum Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Synthetic Gypsum Market.

Available Customizations:

Global Synthetic Gypsum Market report with the given market data, TechSci Research

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offers customizations according to a company's specific needs. The following customization options are available for the report:

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

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