

Sulfur Bentonite Market - Global Industry Size, Share, Trends, Opportunity & Forecast, Segmented By Application (Cereals & Grains, Fruits and Vegetables, Oilseeds, Others), By Region & Competition, 2020-2030F

Market Report | 2025-08-25 | 180 pages | TechSci Research

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Report description:

Market Overview

Global Sulfur Bentonite market was valued at USD 115.10 Million in 2024 and is expected to reach USD 155.31 Million by 2030 with a CAGR of 5.12%. The Global Sulfur Bentonite Market is undergoing notable expansion, fueled by the agricultural sector's shift toward specialized sulfur nutrition solutions to combat soil micronutrient depletion. Sulfur bentonite a precision-formulated granular fertilizer combining elemental sulfur with bentonite clay for controlled release is gaining strong adoption in commercial oilseed and legume cultivation, particularly in regions facing chronic sulfur deficiencies such as India, China, Brazil, and Sub-Saharan Africa.

Key Market Drivers

Rising Demand of Sulfur Bentonite in Oilseeds Crops

The rising demand for sulfur bentonite in oilseed cultivation is a key growth driver in the Global Sulfur Bentonite Market, as oilseed crops are particularly responsive to sulfur-based nutrition. This demand is being fueled by the need to enhance oil yield, improve seed quality, and correct sulfur deficiencies in major oilseed-producing regions worldwide. The integration of sulfur bentonite into oilseed farming practices is not only improving crop productivity but also strengthening its commercial appeal as a high-efficiency, value-added fertilizer.

Oilseeds such as soybean, rapeseed (canola), sunflower, mustard, and groundnut have a relatively high sulfur requirement compared to cereal crops. Sulfur is essential for the synthesis of sulfur-containing amino acids (cysteine and methionine), enzymes involved in oil formation, and protein structure. Without adequate sulfur, oilseeds often suffer from: Lower oil content in seeds, Reduced seed quality and germination, Decreased resistance to environmental stress. Sulfur bentonite, with its slow-release properties, ensures a consistent and extended supply of plant-available sulfur, supporting optimal growth and oil production throughout the crop cycle. In FY 2022-23, India imported approximately 16.5 million tonnes of edible oils, with

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domestic production meeting only 40-45% of the nation's total consumption. This significant reliance on imports highlights the strategic challenge of achieving self-sufficiency in edible oil production, underscoring the urgent need for expanded oilseed cultivation, yield enhancement, and investment in agri-infrastructure to reduce external dependency.

Countries like India, China, Brazil, Argentina, and Canada are increasing land allocation for oilseed crops due to their economic value, export potential, and alignment with sustainable agriculture goals. India ranks as the fourth-largest producer of oilseeds globally and accounts for 20.8% of the world's total cultivated area dedicated to oilseed crops. This substantial share of global acreage underscores India's strategic position in the oilseed value chain, despite productivity challenges that limit its output relative to potential. Sulfur bentonite is promoted under government schemes such as India's Soil Health Card and Balanced Fertilizer Use programs to address micronutrient deficiencies. Domestic fertilizer manufacturers and agri-cooperatives are expanding the distribution of sulfur bentonite for oilseed farmers under targeted campaigns. This widening adoption, supported by field trials and agronomic data, is translating into higher usage volumes and market expansion. Sulfur bentonite offers a higher return on investment for oilseed farmers compared to conventional sulfur sources such as gypsum or elemental sulfur powders. Its granular form, uniform dispersion, and bentonite-based swelling action make it easier to apply and more efficient in releasing sulfur in sync with crop uptake patterns. Farmers report benefits such as: Higher oil content per seed, Improved pod formation and seed filling, Enhanced crop uniformity and harvest quality. These outcomes translate into premium market pricing and greater profitability, making sulfur bentonite a preferred input in commercial oilseed farming.

Key Market Challenges

High Production Costs and Price Sensitivity Among End-Users

One of the most critical challenges limiting the growth of the sulfur bentonite market is its relatively high production cost compared to traditional sulfur-based fertilizers such as gypsum, ammonium sulfate, or single superphosphate (SSP). The production of sulfur bentonite involves a granulation process, integration of bentonite clay for swelling and dispersion, and specialized handling for controlled-release functionality.

These manufacturing complexities increase the per-ton cost of the product, making it less competitive in price-sensitive agricultural markets. Smallholder farmers in developing regions who constitute a major portion of the global fertilizer user base often prioritize low-cost bulk fertilizers, even if they offer lower efficiency. Government fertilizer subsidies in many countries tend to favor conventional NPK formulations, further limiting the market penetration of premium products like sulfur bentonite. Unless cost-efficient manufacturing technologies and targeted subsidies are introduced, price competitiveness will remain a key constraint, especially in emerging economies.

Key Market Trends

Transition Toward Balanced Fertilization and Secondary Nutrient Management

A major trend influencing future market growth is the global shift from macronutrient-heavy fertilization (NPK) toward balanced nutrient programs that emphasize secondary and micronutrients, particularly sulfur. Agronomists, policymakers, and fertilizer advisory bodies are recognizing that yield plateaus and declining soil fertility in many high-output regions are linked to the long-term neglect of nutrients like sulfur, zinc, and magnesium.

Sulfur is now being classified as a "limiting nutrient" in intensive farming systems, especially for crops like wheat, maize, and oilseeds. National agricultural strategies especially in countries such as India, Brazil, and Egypt are beginning to mandate or recommend the inclusion of sulfur in government-subsidized nutrient plans. Precision farming platforms and soil-testing services are also generating data-driven insights on sulfur deficiencies, accelerating farmer adoption of sulfur-enriched granular products like sulfur bentonite. This systemic transition toward nutrient balance over yield maximization is creating long-term, structural demand for sulfur bentonite across multiple crop segments and geographies.

Key Market Players

- [] Tiger-Sul Products LLC
- [] Devco Australia
- [] Coromandel International Limited
- [] Galaxy Sulfur LLC
- [] Sohar Sulphur Fertilizers LLC
- [] Montana Sulphur & Chemical Co.

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- National Fertilizers Limited
- Kiran Chemicals
- Gujarat Aksha Fertilizer Company
- Irasulph Company

Report Scope:

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

-□Sulfur Bentonite Market, By Application:

- o Cereals & Grains
- o Fruits and Vegetables
- o Oilseeds
- o Others

-□Sulfur Bentonite Market, By Region:

- o North America
 - United States
 - Canada
 - Mexico
- o Europe
 - France
 - Germany
 - United Kingdom
 - Italy
 - Spain
- o Asia-Pacific
 - China
 - India
 - South Korea
 - Japan
 - Australia
- o South America
 - Brazil
 - Argentina
 - Colombia
- o Middle East & Africa
 - South Africa
 - Saudi Arabia
 - UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Sulfur Bentonite Market.

Available Customizations:

Global Sulfur Bentonite Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

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

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