

Feed Phosphate - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2026 - 2031)

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Report description:

Feed Phosphate Market Analysis

Feed phosphate market size in 2026 is estimated at USD 3.06 billion, growing from 2025 value of USD 2.9 billion with 2031 projections showing USD 4.01 billion, growing at 5.53% CAGR over 2026-2031. Expansion reflects a decisive shift from basic mineral supplementation to precision nutrition solutions that maximize phosphorus bioavailability while meeting strict sustainability goals. Demand intensifies as emerging economies industrialize livestock production, raising consumption of high-quality feed additives that safeguard growth performance and skeletal development. Phosphate producers are integrating vertically, investing in beneficiation technology, and piloting circular-economy recovery systems to manage tightening runoff regulations. Producers that combine reliable supply with tailored technical services find a receptive customer base among large integrators adopting real-time feeding platforms and enzyme co-formulations.

Global Feed Phosphate Market Trends and Insights

Growing Demand for Meat and Dairy Products

Per-capita meat consumption is climbing 2.1% annually in Southeast Asia and Sub-Saharan Africa, driving sustained uptake of mineral-rich additives that support bone formation and metabolic health. Global milk output is also expanding 1.8% each year, amplifying the requirement for precision calcium-phosphorus supplementation in dairy herds. Rising middle-class incomes in these regions elevate demand for premium animal protein, encouraging producers to adopt feed programs that leverage

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high-bioavailability phosphates for improved feed conversion. In developed markets, consumers increasingly seek quality assurances around animal nutrition, reinforcing supplier investment in value-added phosphate blends that align with welfare and environmental goals.

Expansion of Industrial Livestock Operations

Government-led modernization schemes in China, Brazil, and selected African nations continue to consolidate production into large-scale facilities, where uniform feed specifications call for consistent phosphate content. These concentrated hubs establish long-term bulk-purchase contracts with vertically integrated phosphate suppliers, promoting collaborative formulation that tailors phosphorus solubility to specific production systems. Standardized diets across vast contract-farming networks stabilize demand, making the feed phosphate market increasingly predictable during the outlook period.

Stringent Environmental Regulations on Phosphorus Runoff

Europe's Water Framework and Nitrates Directives impose nutrient-management planning that limits permissible phosphorus application, compelling livestock operators to adopt low-excretion diets. Similar initiatives in several U.S. watersheds embed phosphorus trading schemes that raise compliance costs, shifting procurement toward phosphates offering higher digestibility. Suppliers must now document heavy-metal content and traceability, adding complexity to market entry and heightening the value of certified products. These regulatory pressures drive innovation in low-phosphorus feed formulations and enhanced phosphate bioavailability products, but simultaneously create market uncertainty as compliance requirements evolve and enforcement mechanisms strengthen across different jurisdictions.

Other drivers and restraints analyzed in the detailed report include:

Technological Advances in Feed-Processing Precision
Rising Adoption of Functional Phosphate Blends
Volatility in Phosphate Rock Prices

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Dicalcium phosphate captured 37.45% of the feed phosphate market share in 2025, anchored by decades-old infrastructure that supplies consistent quality at competitive price points. As a result, the segment benefits from economies of scale that are hard to replicate, ensuring stable demand even as specialized alternatives enter the landscape. Mono-dicalcium phosphate, however, is expanding fastest at a 6.82% CAGR, propelled by its superior solubility that aligns with precision feeding and automated micro-dosing lines.

Growing interest in circular-economy practices may gradually temper reliance on high-volume dicalcium variants, yet cost-effective production and robust distribution networks will likely protect their position through 2030. Mono- and monocalcium options are poised to gain share where rapid phosphorus availability is essential, especially in starter diets for young poultry and piglets. Niche plays such as tricalcium phosphate and defluorinated phosphate cater to organic labels and fluorine-sensitive markets, respectively, adding variety to a portfolio still dominated by traditional dicalcium volumes.

The Feed Phosphate Market Report is Segmented by Feed Type (Monocalcium Phosphate, Dicalcium Phosphate, Mono-Dicalcium Phosphate, Tricalcium Phosphate, Defluorinated Phosphate, Other Feed Types), Livestock Type (Poultry, Swine, Cattle, Aquatic Animals, Other Livestock Types), and Geography (North America, Europe, Asia-Pacific, South America, Middle East, Africa). The Market Forecasts are Provided in Terms of Value (USD).

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Geography Analysis

Asia-Pacific led the feed phosphate market with 34.22% revenue share in 2025, underpinned by China's vast hog and poultry sectors and India's fast-growing dairy and broiler industries. Ongoing urbanization fuels higher animal-protein intake, encouraging large-scale farms to adopt standardized feed fortified with verified phosphorus levels. Efficient local manufacturing clusters in Shandong, Henan, and Gujarat shorten supply chains, reduce logistics costs, and foster collaboration between feed mills and phosphate producers.

The Middle East is projected to post the fastest 7.32% CAGR to 2031, driven by Saudi Arabia's USD 7.4 billion Phosphate 3 investment, which will add 3 million metric tons of capacity and strengthen regional self-sufficiency in the year 2025. Gulf Cooperation Council food-security strategies support domestic poultry and dairy projects that require high-quality feed inputs. New processing hubs near Jazan and Ras Al Khair position the region as both a supplier to neighboring African markets and a trans-shipper to Asia.

North America and Europe remain technologically influential, advancing precision feeding systems that showcase how circular-economy objectives can co-exist with production efficiency. The European Union's push toward phosphorus recovery from manure and waste streams accelerates pilot projects that could displace some virgin phosphate demand, although absolute volumes are unlikely to contract before 2030. South America's long-term upside stems from Brazil's integrated poultry complex and Argentina's beef exports, both of which favor differentiated, performance-oriented phosphate blends. Africa, while still nascent, shows incremental gains tied to regional poultry clusters in Nigeria, Egypt, and South Africa, providing long-run headroom for cost-effective products.

List of Companies Covered in this Report:

OCP Group The Mosaic Company PhosAgro PJSC EuroChem Group AG Yara International ASA TIMAB Industries- Phosphea (Groupe Roullier) J.R. Simplot Company Israel Chemicals Ltd. Nanjing Runfeng Chemical Co., Ltd. Saudi Arabian Mining Co. (Ma'aden Innophos Holdings Inc. (One Rock Capital Partners LLC) Guizhou Chia Tai Industry Co., Ltd. (Charoen Pokphand Group) Lomon Billions Group Co., Ltd.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

Table of Contents:

- 1 Introduction
 - 1.1 Study Assumptions and Market Definition
 - 1.2 Scope of the Study
- 2 Research Methodology
- 3 Executive Summary
- 4 Market Landscape
 - 4.1 Market Overview
 - 4.2 Market Drivers

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- 4.2.1 Growing demand for meat and dairy products
- 4.2.2 Expansion of industrial livestock operations
- 4.2.3 Technological advances in feed-processing precision
- 4.2.4 Rising adoption of functional phosphate blends
- 4.2.5 Phosphate-recycling mandates in the European Union
- 4.2.6 Emergence of insect-protein co-feeding boosting phosphate use efficiency
- 4.3 Market Restraints
 - 4.3.1 Stringent environmental regulations on phosphorus run-off
 - 4.3.2 Volatility in phosphate rock prices
 - 4.3.3 Availability of alternative feed additives
 - 4.3.4 Growing circular-economy push to lower inorganic phosphate inclusion
- 4.4 Regulatory Landscape
- 4.5 Technological Outlook
- 4.6 Porter's Five Forces Analysis
 - 4.6.1 Bargaining Power of Suppliers
 - 4.6.2 Bargaining Power of Buyers
 - 4.6.3 Threat of New Entrants
 - 4.6.4 Threat of Substitute Products
 - 4.6.5 Intensity of Competitive Rivalry

5 Market Size and Growth Forecasts (Value)

- 5.1 By Feed Type
 - 5.1.1 Monocalcium Phosphate
 - 5.1.2 Dicalcium Phosphate
 - 5.1.3 Mono-Dicalcium Phosphate
 - 5.1.4 Tricalcium Phosphate
 - 5.1.5 Defluorinated Phosphate
 - 5.1.6 Other Feed Types
- 5.2 By Livestock Type
 - 5.2.1 Poultry
 - 5.2.2 Swine
 - 5.2.3 Cattle
 - 5.2.4 Aquatic Animals
 - 5.2.5 Other Livestock Types
- 5.3 By Geography
 - 5.3.1 North America
 - 5.3.1.1 United States
 - 5.3.1.2 Canada
 - 5.3.1.3 Mexico
 - 5.3.1.4 Rest of North America
 - 5.3.2 Europe
 - 5.3.2.1 Germany
 - 5.3.2.2 United Kingdom
 - 5.3.2.3 France
 - 5.3.2.4 Russia
 - 5.3.2.5 Spain
 - 5.3.2.6 Rest of Europe

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- 5.3.3 Asia-Pacific
 - 5.3.3.1 India
 - 5.3.3.2 China
 - 5.3.3.3 Japan
 - 5.3.3.4 Australia
 - 5.3.3.5 Rest of Asia-Pacific
- 5.3.4 South America
 - 5.3.4.1 Brazil
 - 5.3.4.2 Argentina
 - 5.3.4.3 Rest of South America
- 5.3.5 Middle East
 - 5.3.5.1 Saudi Arabia
 - 5.3.5.2 United Arab Emirates
 - 5.3.5.3 Rest of Middle East
- 5.3.6 Africa
 - 5.3.6.1 South Africa
 - 5.3.6.2 Nigeria
 - 5.3.6.3 Rest of Africa

6 Competitive Landscape

6.1 Market Concentration

6.2 Strategic Moves

6.3 Market Share Analysis

6.4 Company Profiles (Includes Global-level Overview, Market-level Overview, Core Segments, Financials as available, Strategic Information, Market Rank/Share, Products and Services, and Recent Developments)

6.4.1 OCP Group

6.4.2 The Mosaic Company

6.4.3 PhosAgro PJSC

6.4.4 EuroChem Group AG

6.4.5 Yara International ASA

6.4.6 TIMAB Industries- Phosphea (Groupe Roullier)

6.4.7 J.R. Simplot Company

6.4.8 Israel Chemicals Ltd.

6.4.9 Nanjing Runfeng Chemical Co., Ltd.

6.4.10 Saudi Arabian Mining Co. (Ma'aden

6.4.11 Innophos Holdings Inc. (One Rock Capital Partners LLC)

6.4.12 Guizhou Chia Tai Industry Co., Ltd. (Charoen Pokphand Group)

6.4.13 Lomon Billions Group Co., Ltd.

7 Market Opportunities and Future Outlook

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