

Phosphate Rock Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Fertilizers, Food & Feed Additives, Industrial, Others), By Region and Competition, 2020-2030F

Market Report | 2025-08-25 | 185 pages | TechSci Research

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Report description:

Market Overview

Global Phosphate Rock Market was valued at USD 19.77 billion in 2024 and is expected to reach USD 25.03 billion in the forecast period with a CAGR of 3.97% through 2030. The global phosphate rock market plays a pivotal role in supporting agricultural productivity, as it is a primary source of phosphorus, a critical nutrient for plant growth. This market encompasses the extraction, processing, and distribution of phosphate rock, which is used primarily in the production of fertilizers. With a growing global population and increasing food demand, the phosphate rock market is of paramount importance to ensure food security and sustainable agriculture.

One of the key drivers of the global phosphate rock market is the ever-increasing need for agricultural productivity enhancement. Phosphate rock is a fundamental ingredient in phosphate fertilizers, which are essential for enriching soil with phosphorus, a nutrient vital for crop development. As emerging economies continue to urbanize and dietary preferences shift toward more protein-rich diets, the demand for phosphate fertilizers is on the rise.

Sustainability and environmental concerns are increasingly shaping the phosphate rock market. The extraction and processing of phosphate rock can have environmental impacts, including habitat disruption and water pollution. Therefore, there is a growing emphasis on sustainable mining practices and the development of cleaner production methods in the industry.

Key Market Drivers

Growing Global Population and Food Demand

The ever-increasing global population, expected to surpass 9.7 billion by 2050, is placing unprecedented pressure on global food systems. According to the FAO, food production must increase by nearly 70% to meet future demand. This need is intensifying the use of essential fertilizers, particularly those derived from phosphate rock. As the primary source of phosphorus, phosphate rock plays a critical role in enhancing crop productivity. Without adequate phosphorus, plants struggle to develop properly, making

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phosphate rock-based fertilizers essential in sustaining and scaling agricultural output to feed an expanding population. Phosphorus is vital for key plant functions such as photosynthesis, root development, and energy transfer. However, recent studies have shown that approximately 30% of global agricultural soils are deficient in phosphorus, especially in intensively farmed regions of Asia and Africa. This has led to a significant rise in phosphate fertilizer consumption, particularly monoammonium and diammonium phosphate, which are directly derived from phosphate rock. These inputs enable healthier crops and increased yields, aligning with the global need to secure food supplies and address the nutritional needs of billions of people.

Phosphate rock is a non-substitutable input in the manufacture of phosphate fertilizers, making it integral to food security strategies worldwide. As farmers adopt high-yield and nutrient-demanding crop varieties to meet growing food demand, phosphate application becomes indispensable. In 2023, phosphate-based fertilizer usage rose by over 6% globally, reflecting a direct correlation between food production efforts and phosphorus dependency. As a result, phosphate rock mining and processing have intensified to support global agricultural systems striving to improve productivity sustainably.

Key Market Challenges

Depleting Reserves

The global phosphate rock market faces a significant and persistent challenge in the form of depleting reserves. Phosphate rock, a finite natural resource, is a primary source of phosphorus, a crucial nutrient for agricultural productivity. This resource is essential for producing phosphate fertilizers that nourish crops, ensuring food security for a growing global population. However, the depletion of high-quality phosphate rock reserves is a critical issue that poses long-term sustainability concerns for the market. The concentration of phosphate rock reserves in a few key producing countries, with Morocco being the most prominent, underscores the vulnerability of the global supply chain. As the demand for food continues to rise with a burgeoning global population, the extraction rates for phosphate rock have increased substantially. This heightened extraction puts pressure on existing reserves, leading to the decline in quality and accessibility of remaining deposits.

Phosphate rock mining involves extracting phosphate-rich ore from underground or open-pit mines. Over time, the most easily accessible and high-grade reserves have been exploited, leaving behind lower-grade deposits. The lower quality of the remaining phosphate rock necessitates more energy-intensive and environmentally impactful extraction and processing methods, further exacerbating the challenges.

Exploration for new phosphate rock deposits is becoming increasingly complex and costly, often requiring deeper drilling and exploration in remote or environmentally sensitive areas. This adds to the overall cost of production and raises concerns about the economic viability of future mining projects.

Key Market Trends

Phosphorus Recycling

Phosphorus recycling is emerging as a significant driver boosting the global phosphate rock market. This innovative approach to phosphorus management is reshaping the industry by contributing to sustainability, resource conservation, and reduced environmental impact.

One of the primary aspects of phosphorus recycling involves recovering phosphorus from wastewater and industrial effluents. Phosphorus is a common pollutant in sewage and industrial wastewater, posing environmental risks when released into natural water bodies. Advanced treatment technologies, such as phosphorus recovery systems, are now being employed to capture and recycle this valuable nutrient. This reclaimed phosphorus can then be converted into usable phosphate fertilizers, creating a closed-loop system that conserves resources and reduces waste.

Furthermore, the recycling of phosphorus-containing materials from agriculture is gaining traction. Animal manure, crop residues, and food waste are rich sources of phosphorus, and their proper recycling helps offset the need for traditional phosphate rock-derived fertilizers. Farmers and agricultural industries are increasingly adopting practices that harness the phosphorus content of these materials to support crop growth, enhancing soil health while conserving finite phosphate rock reserves.

Phosphorus recycling aligns with sustainability objectives and addresses environmental concerns associated with traditional phosphate mining and processing. It reduces the industry's reliance on finite phosphate rock reserves, which are depleted over time, and mitigates the environmental impacts associated with mining activities. As a result, it not only enhances resource efficiency but also contributes to minimizing habitat disruption, water pollution, and soil degradation.

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Key Market Players

- OCP Group
- The Mosaic Company
- Ma'aden
- PhosAgro
- Guizhou Kailin Holdings (Group) Co., Ltd.
- Yuntianhua Group
- Misr Phosphate
- Hubei Xingfa Chemicals
- Wengfu Group
- Yunnan Phosphate Haikou Co., Ltd. (YPH)

Report Scope:

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

-□ Phosphate Rock Market, By Application:

- o Fertilizers
- o Food & Feed Additives
- o Industrial
- o Others

-□ Phosphate Rock Market, By Region:

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

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Phosphate Rock Market.

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Available Customizations:

Global Phosphate Rock 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).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, Trends
4. Global Phosphate Rock Market Outlook
 - 4.1. Market Size & Forecast
 - 4.1.1. By Value
 - 4.2. Market Share & Forecast
 - 4.2.1. By Application (Fertilizers, Food & Feed Additives, Industrial, Others)
 - 4.2.2. By Region
 - 4.2.3. By Company (2024)
 - 4.3. Market Map
 - 4.3.1. By Application
 - 4.3.2. By Region
5. Asia Pacific Phosphate Rock Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value
 - 5.2. Market Share & Forecast
 - 5.2.1. By Application
 - 5.2.2. By Country
 - 5.3. Asia Pacific: Country Analysis
 - 5.3.1. China Phosphate Rock Market Outlook
 - 5.3.1.1. Market Size & Forecast
 - 5.3.1.1.1. By Value

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- 5.3.1.2. Market Share & Forecast
 - 5.3.1.2.1. By Application
- 5.3.2. India Phosphate Rock Market Outlook
 - 5.3.2.1. Market Size & Forecast
 - 5.3.2.1.1. By Value
 - 5.3.2.2. Market Share & Forecast
 - 5.3.2.2.1. By Application
- 5.3.3. Australia Phosphate Rock Market Outlook
 - 5.3.3.1. Market Size & Forecast
 - 5.3.3.1.1. By Value
 - 5.3.3.2. Market Share & Forecast
 - 5.3.3.2.1. By Application
- 5.3.4. Japan Phosphate Rock Market Outlook
 - 5.3.4.1. Market Size & Forecast
 - 5.3.4.1.1. By Value
 - 5.3.4.2. Market Share & Forecast
 - 5.3.4.2.1. By Application
- 5.3.5. South Korea Phosphate Rock Market Outlook
 - 5.3.5.1. Market Size & Forecast
 - 5.3.5.1.1. By Value
 - 5.3.5.2. Market Share & Forecast
 - 5.3.5.2.1. By Application
- 6. Europe Phosphate Rock Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Application
 - 6.2.2. By Country
 - 6.3. Europe: Country Analysis
 - 6.3.1. France Phosphate Rock Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Application
 - 6.3.2. Germany Phosphate Rock Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Application
 - 6.3.3. Spain Phosphate Rock Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Application
 - 6.3.4. Italy Phosphate Rock Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Value

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- 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Application
- 6.3.5. United Kingdom Phosphate Rock Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Application
- 7. North America Phosphate Rock Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Application
 - 7.2.2. By Country
 - 7.3. North America: Country Analysis
 - 7.3.1. United States Phosphate Rock Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Application
 - 7.3.2. Mexico Phosphate Rock Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Application
 - 7.3.3. Canada Phosphate Rock Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Application
 - 8. South America Phosphate Rock Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Application
 - 8.2.2. By Country
 - 8.3. South America: Country Analysis
 - 8.3.1. Brazil Phosphate Rock Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Application
 - 8.3.2. Argentina Phosphate Rock Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Application
 - 8.3.3. Colombia Phosphate Rock Market Outlook

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- 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
- 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Application
- 9. Middle East and Africa Phosphate Rock Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Application
 - 9.2.2. By Country
 - 9.3. MEA: Country Analysis
 - 9.3.1. South Africa Phosphate Rock Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Application
 - 9.3.2. Saudi Arabia Phosphate Rock Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Application
 - 9.3.3. UAE Phosphate Rock Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Application
 - 9.3.4. Egypt Phosphate Rock Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Application
- 10. Market Dynamics
 - 10.1. Drivers
 - 10.2. Challenges
- 11. Market Trends & Developments
 - 11.1. Recent Developments
 - 11.2. Product Launches
 - 11.3. Mergers & Acquisitions
- 12. Global Phosphate Rock Market: SWOT Analysis
- 13. Porter's Five Forces Analysis
 - 13.1. Competition in the Industry
 - 13.2. Potential of New Entrants
 - 13.3. Power of Suppliers
 - 13.4. Power of Customers
 - 13.5. Threat of Substitute Product
- 14. Competitive Landscape
 - 14.1. OCP Group

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- 14.1.1. Business Overview
- 14.1.2. Company Snapshot
- 14.1.3. Products & Services
- 14.1.4. Current Capacity Analysis
- 14.1.5. Financials (In case of listed)
- 14.1.6. Recent Developments
- 14.1.7. SWOT Analysis
- 14.2. The Mosaic Company
- 14.3. Ma'aden
- 14.4. PhosAgro
- 14.5. Guizhou Kailin Holdings (Group) Co., Ltd.
- 14.6. Yuntianhua Group
- 14.7. Misr Phosphate
- 14.8. Hubei Xingfa Chemicals
- 14.9. Wengfu Group
- 14.10. Yunnan Phosphate Haikou Co., Ltd. (YPH)
- 15. Strategic Recommendations
- 16 About Us & Disclaimer

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