

Polymer Coated Urea Market is expected to reach USD 1662.2 million by 2030 | DataM Intelligence

The Global Polymer Coated Urea Market is expected to reach at a CAGR of 6.1% during the forecast period 2024-2031.

AUSTIN, TX, UNITED STATES, March 6, 2026 /EINPresswire.com/ -- Market Overview:

The [Polymer Coated Urea Market](#) has gained significant traction in the global agricultural sector due to the rising need for efficient fertilizers that improve nutrient utilization and minimize environmental impact.

Polymer coated urea is a type of controlled-release fertilizer in which urea granules are encapsulated with a polymer layer, allowing nutrients to be released gradually according to soil moisture and temperature conditions. This technology enhances nitrogen use efficiency, reduces nutrient leaching, and ensures sustained crop growth. As global food demand continues to increase due to population growth and shrinking arable land, farmers are increasingly adopting advanced fertilizers such as polymer coated urea to improve crop productivity and soil health.

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The Polymer Coated Urea Market is gaining traction as farmers seek controlled-release fertilizers that improve nutrient efficiency, reduce losses, and support sustainable agricultural productivity.”

DataM Intelligence



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According to DataM Intelligence, The Global Polymer Coated Urea Market was valued at approximately USD 1035.1 million in 2022 and is expected to reach around USD 1662.2 million by 2030, growing at a CAGR of about

6.1% during the forecast period. The primary growth drivers include the increasing demand for

controlled-release fertilizers, rising adoption of precision agriculture, and growing concerns regarding nitrogen loss from conventional fertilizers. Among product segments, agriculture-grade polymer coated urea holds the largest market share due to its widespread use in crop cultivation, particularly for cereals, fruits, and vegetables. Geographically, North America leads the market, driven by advanced farming practices, strong adoption of controlled-release fertilizers, and supportive government policies aimed at sustainable agriculture and environmental protection.

Key Highlights from the Report:

Polymer coated urea enhances nitrogen efficiency and reduces fertilizer application frequency in agricultural fields.

Growing adoption of controlled-release fertilizers is driving strong demand across commercial farming operations.

Increasing global food demand and the need for higher crop yields are accelerating market expansion.

Technological advancements in polymer coating materials are improving fertilizer performance and durability.

North America remains the leading regional market due to widespread precision farming practices.

The agriculture sector represents the largest application segment for polymer coated urea fertilizers.

Market Segmentation:

The Polymer Coated Urea Market can be segmented based on product type, application, and end-user industries, each playing a crucial role in shaping market growth and demand patterns.

Based on product type, polymer coated urea fertilizers are generally categorized into single-layer polymer coated urea and multi-layer polymer coated urea. Single-layer coatings are commonly used due to their cost-effectiveness and ease of manufacturing, making them suitable for large-scale agricultural applications. However, multi-layer polymer coated urea is gaining popularity in high-value crops and precision agriculture because it provides more controlled nutrient release and improved efficiency. The multi-layer coating technology ensures consistent nitrogen release over extended periods, reducing nutrient loss and optimizing plant growth.

In terms of application, the market is primarily segmented into agriculture, horticulture, turf management, and specialty crops. Agriculture dominates the market due to extensive fertilizer use in staple crop production, including wheat, rice, maize, and soybean cultivation. Farmers prefer polymer coated urea as it reduces the need for frequent fertilizer application and improves crop productivity. Horticulture and turf management applications are also growing steadily, particularly in landscaping, golf courses, and sports fields where controlled nutrient release ensures consistent plant health and reduced environmental impact.

From an end-user perspective, commercial farming operations, greenhouse cultivation, and landscaping industries are key consumers of polymer coated urea fertilizers. Commercial farms represent the largest segment because of the increasing adoption of advanced agricultural technologies and fertilizers aimed at maximizing yield and minimizing costs. Greenhouse cultivation is another growing segment where polymer coated fertilizers are preferred for precise nutrient delivery, enabling controlled plant growth conditions.

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Regional Insights:

The Polymer Coated Urea Market demonstrates strong regional diversity, with significant demand across North America, Europe, Asia-Pacific, and other emerging agricultural markets.

North America currently dominates the global market due to the widespread adoption of precision agriculture techniques and advanced fertilizer technologies. Farmers in the United States and Canada are increasingly using controlled-release fertilizers to enhance nitrogen efficiency and reduce environmental pollution. Government initiatives promoting sustainable farming practices and improved nutrient management are also supporting market growth across the region.

Europe represents another key market driven by strict environmental regulations aimed at reducing nitrogen runoff and groundwater contamination. Countries such as Germany, France, and the Netherlands are focusing on sustainable fertilizer solutions that minimize ecological impact while maintaining high agricultural productivity. The increasing demand for eco-friendly farming inputs is encouraging farmers to adopt polymer coated urea fertilizers.

The Asia-Pacific region is expected to experience the fastest growth during the forecast period due to expanding agricultural activities and rising food demand in countries such as China, India, and Southeast Asian nations. Governments across the region are encouraging the adoption of advanced fertilizers to improve soil fertility and crop yield. Rapid population growth, increasing fertilizer consumption, and modernization of farming practices are key factors driving market expansion in Asia-Pacific.

Meanwhile, Latin America and the Middle East & Africa are gradually emerging as promising markets. Agricultural economies such as Brazil and Argentina are adopting controlled-release fertilizers to enhance productivity in large-scale farming operations, particularly for soybean and maize cultivation.

Market Dynamics:

Market Drivers

One of the primary drivers of the Polymer Coated Urea Market is the increasing demand for controlled-release fertilizers that improve nitrogen efficiency and reduce nutrient loss. Conventional urea fertilizers often suffer from significant nitrogen loss through volatilization, leaching, and runoff, which reduces crop productivity and contributes to environmental pollution. Polymer coated urea addresses this issue by releasing nutrients gradually, ensuring that plants receive nitrogen in a more controlled and efficient manner. Additionally, the growing global population and rising demand for food production are pushing farmers to adopt high-performance fertilizers that maximize crop yields.

Market Restraints

Despite its advantages, the polymer coated urea market faces certain challenges, primarily related to higher production costs compared to conventional fertilizers. The polymer coating process involves specialized materials and manufacturing techniques, which increase the overall cost of the product. As a result, small-scale farmers in developing regions may find it difficult to adopt polymer coated fertilizers due to cost constraints. Additionally, limited awareness about controlled-release fertilizers and their long-term benefits in certain agricultural regions may slow down market adoption.

Market Opportunities

The market presents significant opportunities with the increasing adoption of precision agriculture technologies and sustainable farming practices. Precision farming relies on efficient nutrient management to optimize crop productivity while minimizing environmental impact. Polymer coated urea fertilizers align perfectly with these goals by delivering nutrients in a controlled manner. Furthermore, ongoing research and development activities aimed at developing biodegradable polymer coatings and eco-friendly fertilizer formulations are expected to create new growth opportunities. Emerging agricultural markets in Asia-Pacific, Africa, and Latin America also offer considerable potential for market expansion.

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Frequently Asked Questions (FAQs):

How big is the global Polymer Coated Urea Market currently?

What is the projected growth rate of the Polymer Coated Urea Market during the forecast period?

Who are the key players operating in the global polymer coated urea industry?

What is the expected market forecast for polymer coated urea fertilizers by 2032?

Which region is estimated to dominate the polymer coated urea industry in the coming years?

Company Insights:

The Polymer Coated Urea Market is characterized by the presence of several global fertilizer manufacturers focusing on technological innovation, product development, and strategic collaborations to strengthen their market position.

Nutrien Ltd.

J.R. Simplot Company

Koch Agronomic Service

ICL Specialty Fertilizers

Haifa Group

Compo Expert

DeltaChem GmbH

Ekompany International

Pursell Agritech

Knox Fertilizer Company Inc.

Recent Developments:

United States:

February 2026: A number of U.S. specialty-crop and golf-course operators reported increased trial adoption of polymer coated urea for turf and ornamentals, citing improved color response and reduced burn risk compared with conventional granular urea.

February 2026: Several U.S. PCU producers began aligning product portfolios with evolving state-level nutrient-management regulations (e.g., in the Chesapeake-Bay-adjacent states and California), emphasizing low-volatility, controlled-release grades to meet runoff and air-quality targets.

January 2026: Leading U.S. fertilizer companies announced new formulations combining polymer-coated urea with nitrification inhibitors and micronutrients, targeting corn and soybean growers seeking improved nitrogen-use efficiency and reduced leaching under wet-spring scenarios.

December 2025: U.S. agricultural regions saw stronger demand for polymer coated urea as a response to higher conventional urea prices, with several major ag-inputs distributors expanding PCU availability in the Midwest and Great Plains to support spring-season planting programs.

Japan:

February 2026: Several Japanese agri-co-operatives and wholesalers expanded distribution of smart-release PCU blends (including coatings with sensor-compatible tracer elements) for precision-farming trials, often in partnership with IoT-based soil-monitoring platforms.

January 2026: Demand for bio-degradable polymer coated urea in Japan grew noticeably, driven

by tightened environmental rules and mushrooming interest from organic and near-organic vegetable growers, who favor products with certified eco-labels.

January 2026: Japanese PCU manufacturers began integrating AI-driven release-modeling tools into product design, allowing tailored coating thickness and release profiles for different soil types and seasonal patterns, especially in aging rural farming communities.

December 2025: Japanese research bodies and ag-tech firms highlighted biodegradable polymer coated urea as a priority under the country's 2050 carbon-neutrality roadmap, with several pilot programs launched in vegetable and rice production zones to cut ammonia and nitrous oxide emissions.

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Conclusion:

The Polymer Coated Urea Market is poised for steady growth as global agriculture shifts toward sustainable and efficient fertilizer solutions. The ability of polymer coated urea to improve nitrogen use efficiency, reduce environmental impact, and enhance crop productivity makes it an essential component of modern farming practices. Rising food demand, increasing adoption of precision agriculture, and supportive government initiatives promoting sustainable nutrient management are expected to drive market expansion in the coming years. As technological advancements continue to improve polymer coating materials and fertilizer performance, polymer coated urea will play an increasingly vital role in the future of global agriculture.

Related Reports:

[Urea Fertilizers Market](#)

[Organic Fertilizers Market](#)

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