

# Controlled-Release Fertilizers Market worth \$3.49 billion by 2030 - Exclusive Report by 360iResearch

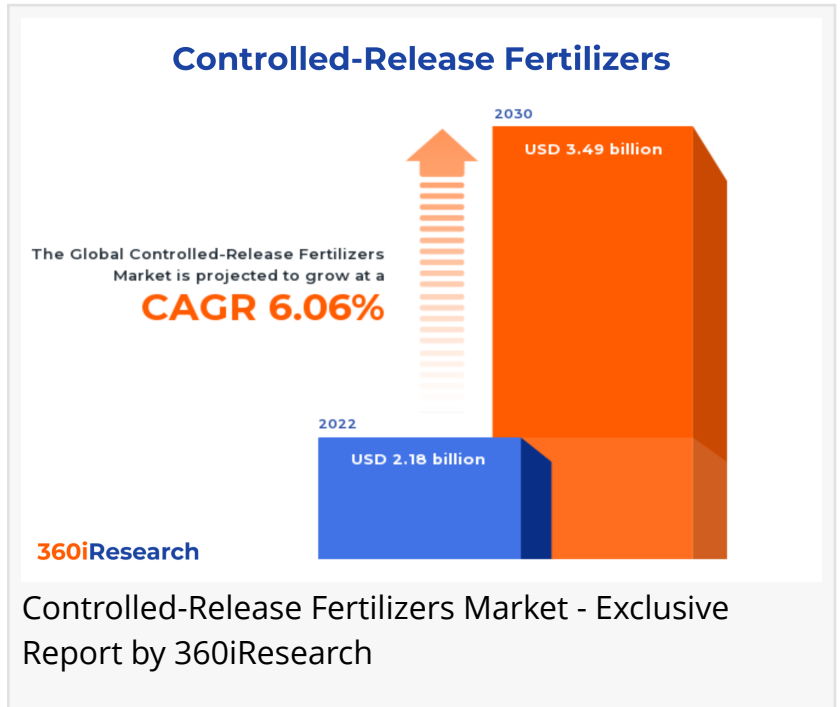
*The Global Controlled-Release Fertilizers Market to grow from USD 2.18 billion in 2022 to USD 3.49 billion by 2030, at a CAGR of 6.06%.*

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EINPresswire.com/ -- The "[Controlled-Release Fertilizers Market](#) by Type (Coated & Encapsulated, N-Stabilizers, Slow-Release), Crop (Cereals & Grains, Fruits & Vegetables, Oilseeds & Pulses), Method, End-Use - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.

The Global Controlled-Release Fertilizers Market to grow from USD 2.18 billion in 2022 to USD 3.49 billion by 2030, at a CAGR of 6.06%.

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The controlled-release fertilizers market focuses on the production, distribution, and application of advanced fertilizer technologies that gradually release nutrients over an extended period. These fertilizers improve crop yield, efficiency, and sustainability while catering to various end-use sectors such as agriculture, horticulture, turf & ornamentals, and specialty applications such as nurseries and greenhouses. The need for sustainable agricultural practices primarily drives market growth due to increasing population growth and decreasing arable land. Key factors contributing to this market development include growing global demand for highly efficient fertilizers, increasing need for high-value crops, and supportive government subsidies. Challenges include compatibility issues with certain crops or soil types, and counterfeit and less efficient products' availability hamper market growth. In addition, continuous product



innovations in controlled-release technology and exploring synergies with precision agriculture techniques or other advanced farming methods are expected to create added value for customers by optimizing nutrient use efficiency, reducing costs, and enhancing overall crop performance. Moreover, vendors are focused on areas of innovation and research, such as developing new formulations catering to a wider range of crop types or soils, investing in R&D for environmentally friendly materials used in designing advanced fertilizer coatings that minimize nutrient losses, and collaborating with agencies or institutions promoting capacity-building initiatives aimed at educating farmers on controlled-release fertilizers' benefits.

**End-Use:** Growing Utilization of controlled-release fertilizers by agriculture sector for nutrient efficiency and environmental sustainability

In agriculture, controlled-release fertilizers help maintain soil fertility, optimize nutrient use efficiency, and reduce environmental impacts. Popular products include polymer-coated urea (PCU), sulfur-coated urea (SCU), and coated micronutrients such as iron and zinc. In the non-agriculture segment, controlled-release fertilizers are utilized in horticulture, turf & ornamentals, forestry management, landscaping services, and residential gardening. These specialized products maintain plant health and aesthetics while reducing labor input and minimizing over-application or frequent feeding risks. Both end-user segments demonstrate significant demand for controlled-release fertilizers driven by their priorities; agriculture emphasizes nutrient efficiency and environmental sustainability, while non-agricultural sectors prioritize aesthetics and ease of maintenance. Ongoing innovations by manufacturers coupled with global research efforts ensure continued growth in adopting controlled-release fertilizers across these segments.

**Type:** Growing adoption of coated & encapsulated Fertilizers precise control over nutrient release rates

Coated & encapsulated fertilizers consist of conventional granule or prill fertilizers covered with a polymer or sulfur coating, which ensures a consistent nutrient supply. These are ideal for long-term crops or areas where frequent fertilizer applications pose challenges. N-stabilizer controlled-release fertilizers focus on stabilizing nitrogen through urease inhibitors or nitrification inhibitors, increasing nitrogen use efficiency while reducing losses from volatilization or leaching. Slow-release fertilizers gradually release nutrients as they dissolve in water due to their low solubility. They are derived from organic materials or inorganic sources such as ammonium sulfate or isobutylidene diurea (IBDU). While Slow-release fertilizers are cost-effective compared to coated & encapsulated options, they may have less control over nutrient release rates. In conclusion, controlled-release fertilizers cater to various agricultural needs based on their benefits and limitations. Coated & encapsulated products offer precise control but higher costs; N-stabilizers target nitrogen efficiency at a lower price but reduced control; slow-release alternatives provide cost-effective solutions with potential limitations in nutrient release rate management.

**Method:** Rising popularity of fertigation method for high-value crops or in regions with limited water resources

Fertigation and foliar application are two advanced techniques for delivering controlled-release fertilizers to crops, each catering to specific agricultural needs. Fertigation incorporates nutrients into irrigation systems, ensuring precise and timely release of fertilizers to high-value crops with unique nutrient demands, such as fruits and vegetables. This method promotes proper nutrient distribution while minimizing losses from leaching or evaporation and mitigating environmental risks due to over-fertilization. The foliar application involves spraying controlled-release fertilizers directly onto plant leaves for rapid nutrient absorption through leaf surfaces, making it suitable for addressing deficiencies during specific growth phases or stress conditions. Specialized coatings or encapsulation technologies ensure gradual nutrient release in these foliar fertilizers. Both techniques provide distinct advantages tailored to individual crop needs such as consistent nutrient supply through fertigation for high-value crops or regions with scarce water resources and rapid responsiveness to nutrient deficiencies via foliar application during critical growth periods or stress situations.

**Crop:** Wider use of controlled-release fertilizers for fruits and vegetables, ensuring optimal growth and quality

Controlled-release fertilizers (CRFs) are essential for maintaining a consistent supply of nutrients to cereals and grains such as rice, wheat, and corn. Given their need for a steady nutrient supply throughout their growth stages, CRFs help improve yield and reduce environmental impacts. Controlled-release fertilizers provide essential nutrients for fruits and vegetables over an extended period, ensuring optimal growth and quality. The demand for oilseeds including soybean and pulses necessitates efficient nutrient use to enhance crop productivity. CRFs are preferred in these crops because they supply a slow, steady release of nutrients that optimizes plant growth and nutrient uptake. Plantation crops such as coffee, tea, rubber, and cocoa benefit from CRFs as they ensure targeted nutrient delivery throughout the long growth cycles typical of perennial crops. Turfgrasses and ornamental plants require precise nutrient management to maintain visual appeal and health. CRFs offer an ideal solution by providing sustainable nutrition that matches the specific needs of turfgrass species.

#### Regional Insights:

In the Americas, the United States and Canada are key players in the controlled-release fertilizers market, compelled by the increasing demand for high-quality agricultural products and the need to enhance crop yield. Adopting advanced farming practices has increased the use of controlled-release fertilizers, which provide nutrients to crops over a longer period, reducing application frequency and labor costs. EU countries have been focusing on sustainable agriculture practices and emphasizing the importance of environmentally friendly fertilizers. This trend is supported by initiatives such as the Circular Economy Action Plan and the European Green Deal, which aim at promoting resource efficiency and eco-innovations in agriculture. The Middle East and Africa (MEA) region has witnessed a surge in investments towards modernizing agricultural infrastructure. In the Asia Pacific region, China, Japan, and India play vital roles in the controlled-release fertilizers market due to their vast agricultural land areas and increasing population demands for food security. Moreover, numerous research studies have been conducted on novel controlled-release fertilizers in the region, such as India's recent development of a hydrogel-

based urea fertilizer with slow nitrogen-release properties.

#### FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Controlled-Release Fertilizers Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

#### Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Controlled-Release Fertilizers Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

#### Key Company Profiles:

The report delves into recent significant developments in the Controlled-Release Fertilizers Market, highlighting leading vendors and their innovative profiles. These include AGLUKON Spezialduenger GmbH & Co. KG, Agricultural Tractors Spares Pte Ltd., AgroBridge (M) Sdn. Bhd., BASF SE, Compo Expert GmbH by Grupa Azoty S.A., Coromandel International Limited, Darling Ingredients Inc., DeltaChem International B.V., Dhanashree Agro Industries, FMC Corporation, Greenfeed Agro Sdn. Bhd., Haifa Negev technologies Ltd., Helena Agri-Enterprises, LLC, Israel Chemicals Ltd., Jcam Agri. Co., Ltd., Kingenta Ecological Engineering Group Co., Ltd., Koch Industries, Inc., Kugler Company, Nufarm Ltd., Nutrien Ltd., PROFILE Products LLC, Pursell Agri-Tech, LLC, SQM VITAS by Groupe Roullier, Stamicarbon B.V., Sumitomo Chemical Co., Ltd., Sustane Natural Fertilizer, Inc., The Mosaic Company, The Scotts Company LLC, UPL LTD., and Yara International ASA.

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#### Market Segmentation & Coverage:

This research report categorizes the Controlled-Release Fertilizers Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Type, market is studied across Coated & Encapsulated, N-Stabilizers, and Slow-Release. The Coated & Encapsulated is further studied across Polymer Coatings, Sulfur Coatings, and

Sulfur-Polymer Coatings. The N-Stabilizers is further studied across Nitrification Inhibitors and Urease Inhibitors. The Slow-Release is further studied across Urea-Acetaldehyde, Urea-Formaldehyde, and Urea-Isobutyraldehyde. The N-Stabilizers is projected to witness significant market share during forecast period.

Based on Crop, market is studied across Cereals & Grains, Fruits & Vegetables, Oilseeds & Pulses, Plantation Crops, and Turf & Ornamentals. The Cereals & Grains is further studied across Corn, Rice, and Wheat. The Fruits & Vegetables is further studied across Brassicas, Citrus Fruits, and Roots & Tubers. The Oilseeds & Pulses is further studied across Canola and Soybean. The Cereals & Grains is projected to witness significant market share during forecast period.

Based on Method, market is studied across Fertigation and Foliar. The Foliar is projected to witness significant market share during forecast period.

Based on End-Use, market is studied across Agriculture and Non-Agriculture. The Non-Agriculture is further studied across Nurseries & Greenhouses and Turf & Lawns. The Agriculture is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Europe, Middle East & Africa commanded largest market share of 39.45% in 2022, followed by Asia-Pacific.

#### Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Controlled-Release Fertilizers Market, by Type
7. Controlled-Release Fertilizers Market, by Crop
8. Controlled-Release Fertilizers Market, by Method
9. Controlled-Release Fertilizers Market, by End-Use
10. Americas Controlled-Release Fertilizers Market
11. Asia-Pacific Controlled-Release Fertilizers Market
12. Europe, Middle East & Africa Controlled-Release Fertilizers Market

- 13. Competitive Landscape
- 14. Competitive Portfolio
- 15. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Controlled-Release Fertilizers Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Controlled-Release Fertilizers Market?
3. What is the competitive strategic window for opportunities in the Controlled-Release Fertilizers Market?
4. What are the technology trends and regulatory frameworks in the Controlled-Release Fertilizers Market?
5. What is the market share of the leading vendors in the Controlled-Release Fertilizers Market?
6. What modes and strategic moves are considered suitable for entering the Controlled-Release Fertilizers Market?

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