

Controlled Release Fertilizers Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> ****Industry:**** Fertilizers, Crop Nutrition & Soil Health (Agriculture & Agribusiness)
> ****Source:**** <https://www.mordorintelligence.com/industry-reports/controlled-release-fertilizer-market>
> ****Scraped Date:**** 2026-09-17

Executive Market Summary

Market Metric	Details
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Base Market Size	USD 4.30 billion
Projected Forecast (2031)	USD 4.30 billion
Growth Rate (CAGR)	8.83 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

![Major players in Controlled Release Fertilizers industry](images/chart_2.png)

![Controlled Release Fertilizers Market (2026 - 2031)](images/chart_3.png)

![Controlled Release Fertilizers Market: Market Share by Coating Type](images/chart_4.png)

![Controlled Release Fertilizers Market: Market Share by Crop Type](images/chart_5.png)

![Controlled Release Fertilizers Market CAGR (%), Growth Rate by Region](images/chart_6.png)

![Controlled Release Fertilizers Market](images/chart_7.png)

![research-methodology](images/chart_8.svg)

![Icon](images/chart_9.png)

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![ESOMAR](images/chart_18.png)

![GPTW](images/chart_20.png)

Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market Overview	Study Period 2021 - 2031
Market Size (2026)	USD 4.30 Billion
Market Size (2031)	USD 6.57 Billion
Growth Rate (2026 - 2031)	8.83 %

Fastest Growing Market | Asia-Pacific |

Largest Market | North America |

Market Concentration | High |

Major Players*Disclaimer: Major Players sorted in no particular order

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Market Overview

Controlled Release Fertilizers Market Analysis by Mordor Intelligence

The controlled release fertilizers market size was valued at USD 3.92 billion in 2025 and is projected to reach USD 4.30 billion in 2026, further expanding to USD 6.57 billion by 2031, registering a CAGR of 8.8% during the forecast period from 2026 to 2031. Heightened scrutiny of nutrient losses, resin inflation that rewards application efficiency, and new European Union rules on polymer biodegradability are accelerating product reformulation and demand. Growers are also turning to long-lasting granules to offset labor shortages because one or two basal applications replace four to six field visits. Precision farming platforms that match sensor data with variable-rate spreaders further expand the addressable acreage by providing a return on the price premium. Meanwhile, water-stressed regions are pairing slow-release granules with drip irrigation to shrink leaching and runoff. Tight supply of polyethylene and polyurethane feedstocks is nudging producers toward starch-polyester blends that comply with the 2028 biodegradability deadline and reduce exposure to petrochemical volatility.

Key Report Takeaways* By Coating Type, polymer-coated products held the largest 72.5% of the controlled release fertilizers market share in 2025 and are projected to fastest growing segment at a 7.4% CAGR during 2026 to 2031.

* By crop type, horticultural crops accounted for the largest share of the controlled-release fertilizers market size in 2025, contributing 44.9% of total market revenue, while turf and ornamental crops are forecast to expand the fastest, at a CAGR of 7.2% through 2031.

* By region, North America held the largest market share, at 31.2% in 2025, while Asia-Pacific is projected to be the fastest-growing region, expanding at a CAGR of 7.6% through 2031.

Key Market Trends

Market Trends and Insights Drivers Impact Analysis of Controlled Release Fertilizers Market*Driver | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline |

Precision agriculture technology integration | +1.2% | North America, Western Europe, and Australia | Medium term (2-4 years) |

Environmental regulations and sustainability rules | +1.5% | Europe, North America, and accelerating in Asia-Pacific after 2027 | Long term (≥ 4 years) |

Water scarcity and irrigation efficiency | +1.3% | Middle East and Africa, Mediterranean Europe, western United States, and northern China | Medium term (2-4 years) |

Labor cost reduction and application convenience | +0.9% | North America, Western Europe, Japan, and peri-urban Asia-Pacific | Short term (≤ 2 years) |

Climate change adaptation and crop resilience | +0.8% | Global, most salient in South Asia and drought-prone Sub-Saharan Africa | Long term (≥ 4 years) |

Food security and productivity optimization | +1.1% | South Asia, Southeast Asia, and Sub-Saharan Africa | Medium term (2-4 years) |

Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

The controlled release fertilizers market remains highly concentrated because the leading five suppliers Grupa Azoty S.A. , ICL Group Ltd., Kingenta Ecological Engineering Group Co., Ltd., Florikan ESA LLC, and Nutrien Ltd. Vertical integration into potash, phosphate, or polymer feedstocks lets these companies buffer resin price swings and fund rapid compliance with European biodegradability rules , advantages that independent coaters lack. Patent filings for starch-polyester and polycaprolactone shells climbed sharply in 2024 and 2025, giving material-science startups fresh leverage when courting nutrient blenders that need bio-based solutions. As a result, long-established players are striking technology alliances to keep portfolios current while guarding their distribution footprints in North America and Europe. Consolidation pressure is visible in Asia-Pacific, where smaller formulators either partner with resin innovators or risk ceding share to integrated rivals that can undercut them on cost and compliance speed.

Strategic investment confirms this shift. Nutrien Ltd tested Internet-connected dispensers across fifty Canadian farms in March 2025, proving 15% to 20% nitrogen savings that tighten user lock-in to its retail channel. Haifa Group has invested USD 35.61 million in a new production facility. In September 2025, Kingenta Ecological Engineering Group, a leading Chinese specialty fertilizer company, completed the acquisition of a majority stake in a prominent Vietnamese agricultural distributor. This acquisition provided tariff-reduced access to Southeast Asia and included plans to establish a domestic coating line by 2027, highlighting the company's strategy to enhance regional cost efficiency and logistics control .

Competitive edges are now forged at the intersection of digital agronomy and nutrient fortification. Suppliers that embed QR-coded labels feed application data directly into farm-management platforms, helping growers document carbon footprints and satisfy food-chain audits. Micronutrient-enriched controlled release blends carrying zinc, boron, or iron open fresh demand in the Indo-Gangetic Plain and Sub-Saharan maize belts where hidden hunger constrains yield. Bio-coatings that degrade within forty-eight months satisfy looming polymer rules while sidestepping microplastic concerns in California and in the European Union, giving first movers a regulatory head start. These dynamics ensure that service breadth, traceability innovation, and resin agility will decide the next round of market share shifts inside the controlled release fertilizers market.

Controlled Release Fertilizers Industry Leaders* Kingenta Ecological Engineering Group Co., Ltd.

* Nutrien Ltd.

* Grupa Azoty S.A.

* ICL Group Ltd.

* Florikan ESA LLC

* *Disclaimer: Major Players sorted in no particular order

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Component Component 3 Scope Of The Report Bottom

Global Controlled Release Fertilizers Market Report ScopeControlled-release fertilizers are granulated nutrients encapsulated in a semi-permeable coating that regulates the release of minerals over several months based on soil temperature and moisture. The controlled release fertilizers market report is segmented by coating type (polymer-coated, polymer-sulfur-coated, and others), crop type (field crops, horticultural crops, and turf and ornamental), and geography (Asia-Pacific, Europe, the Middle East and Africa, North America, and South America). The market forecasts are provided in terms of value (USD) and volume (metric tons).

By Coating Type Polymer Coated |
Polymer-Sulfur Coated |
Others |

Segmentation Accordion Item

By Geography Asia-Pacific | Australia |
| Bangladesh |
| China |
| India |
| Indonesia |
| Japan |
| Pakistan |
| Philippines |
| Thailand |
| Vietnam |
| Rest of Asia-Pacific |
Europe | France |
| Germany |
| Italy |
| Netherlands |
| Russia |
| Spain |
| Ukraine |
| United Kingdom |
| Rest of Europe |
Middle East & Africa | Nigeria |
| Saudi Arabia |
| South Africa |
| Turkey |
| Rest of Middle East & Africa |
North America | Canada |
| Mexico |
| United States |
| Rest of North America |
South America | Argentina |
| Brazil |
| Rest of South America |

Frequently Asked Questions

What is the projected value of the controlled release fertilizers market in 2031?

The market is forecast to reach USD 6.57 billion by 2031.

How fast will the controlled release fertilizers market grow between 2026 and 2031?

It is projected to advance at an 8.83% compound annual growth rate during the forecast period (2026-2031).

Which coating type holds the largest share today?

Polymer-coated formulations led with 72.5% revenue share in 2025.

Which crop segment is expanding the fastest through 2031?

Turf and Ornamentals segment is growing at an 7.2% CAGR through 2031.