

Global Controlled-Release Fertilizer Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G7E26561F97DEN.html>

Date: April 2026

Pages: 136

Price: US\$ 4,480.00 (Single User License)

ID: G7E26561F97DEN

Abstracts

The global Controlled-Release Fertilizer market size is expected to reach \$ 6536 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Controlled-Release Fertilizer (CRF) is a fertilizer product in which water-soluble nutrients are intentionally covered or embedded by a coating or matrix so that nutrient release is governed over time, typically driven by water penetration and temperature rather than immediate dissolution. CRF matters because it can better synchronize nutrient availability with crop uptake, reducing peak losses (leaching and volatilization) and lowering labor and equipment passes by enabling fewer applications.

In the current market, global production is around 4242 kilo ton, with an average selling price of about 997 USD per t EXW basis. CRF is commercially delivered mainly as coated nitrogen (often polymer-coated urea) and coated NPK granules, with longevity options that range from weeks to more than a year depending on coating weight and formulation.

Upstream, the supply chain is anchored by nutrient salts (urea, ammonium phosphates, potassium salts) plus coating inputs such as synthetic polymers and resins, sulfur-based layers, additives, pigments, and process aids. Production requires controlled coating equipment, quality systems to ensure consistent release curves, and formulation know-how to keep coating integrity during handling and storage.

Downstream demand is concentrated in higher-value cropping systems and managed surfaces: turf and professional landscaping, greenhouse and nursery production, and specialty crops where nutrient efficiency and uniform growth translate directly into yield quality and labor savings. Field crops adopt CRF more selectively, typically when

nitrogen management constraints, labor limits, or environmental rules justify the premium. Typical procurement patterns include seasonal pre-booking through regional distributors, annual supply frameworks for large turf and horticulture accounts, and project-style purchases for landscaping or rehabilitation work. A representative industry gross margin is about 26%, reflecting barriers from coating technology, product performance validation, and the need for reliable manufacturing control and distribution coverage rather than raw-material advantages alone.

Competition is shaped by a mix of global specialty nutrition suppliers and strong regional manufacturers, with product portfolios spanning coated nitrogen-only to fully coated NPK complexes. Top 5 suppliers control approximately 60 percent of global revenue, driven by scale in coating technologies, brand pull in turf and horticulture, and cross-region sales footprints. Demand weight is skewed toward China and other high-intensity fertilizer markets, while North America and Europe over-index on turf, nursery, and controlled-environment agriculture where longevity grades and performance claims carry higher willingness to pay. Over 2026-2032, the direction of travel is toward tighter nutrient-loss compliance, more precise longevity targeting, and greater scrutiny of coating materials, alongside cost-down efforts through improved coating efficiency and localized production. Key bottlenecks include the cost and availability of suitable coating materials, the capital intensity of coating lines, and the need to maintain consistent release performance across climates and soil conditions while meeting evolving regulatory expectations.

This report studies the global Controlled-Release Fertilizer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Controlled-Release Fertilizer and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Controlled-Release Fertilizer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Controlled-Release Fertilizer total production and demand, 2021-2032, (K MT)

Global Controlled-Release Fertilizer total production value, 2021-2032, (USD Million)

Global Controlled-Release Fertilizer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Controlled-Release Fertilizer consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Controlled-Release Fertilizer domestic production, consumption, key domestic manufacturers and share

Global Controlled-Release Fertilizer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Controlled-Release Fertilizer production by Coating Material, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Controlled-Release Fertilizer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Controlled-Release Fertilizer market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ICL, Nutrien, J.R. Simplot, Profile Products, Florikan, Knox Fertilizer Company, Allied Nutrients, Harrell' s, Haifa Group, JCAM Agri, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Controlled-Release Fertilizer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by manufacturer, by Coating Material, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Controlled-Release Fertilizer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Controlled-Release Fertilizer Market, Segmentation by Coating Material:

Polymer-Coated Products

Non Polymer-Coated Products

Global Controlled-Release Fertilizer Market, Segmentation by Longevity Grade:

Up to 3 Months

3 to 6 Months

6 to 9 Months

9 to 16 Months

More Than 16 Months

Global Controlled-Release Fertilizer Market, Segmentation by Nutrient Package:

Coated Urea or Nitrogen Only

Coated NPK Complex

Coated NP or NK

Coated Potash or Other Single Nutrient

Coated Micronutrient Blends

Global Controlled-Release Fertilizer Market, Segmentation by Application:

Turf and Landscape

Greenhouse and Nursery

Horticulture and Specialty Crops

Field Crops

Forestry and Rehabilitation

Other End Uses

Companies Profiled:

ICL

Nutrien

J.R. Simplot

Profile Products

Florikan

Knox Fertilizer Company

Allied Nutrients

Harrell's

Haifa Group

JCAM Agri

Central Glass Group

COMPO EXPERT

Pursell Agri-Tech

Kingenta

Stanley Agriculture Group

Shikefeng Chemical

Anhui MOITH

YONFER

Key Questions Answered:

1. How big is the global Controlled-Release Fertilizer market?
2. What is the demand of the global Controlled-Release Fertilizer market?
3. What is the year over year growth of the global Controlled-Release Fertilizer market?
4. What is the production and production value of the global Controlled-Release Fertilizer market?
5. Who are the key producers in the global Controlled-Release Fertilizer market?
6. What are the growth factors driving the market demand?

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