

Nano Fertilizer Market Poised for Significant Growth, Projected to Surpass USD 8.7 Billion by 2033

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WILMINGTON, DE, UNITED STATES, March 5, 2025 /EINPresswire.com/ -- Allied Market Research recently published a report titled, "[Nano Fertilizers Market](#) by Raw Material (Nitrogen, Silver, Carbon, Zinc, and Others), Method (Spray or Foliar, and Soil Treated), Application Area (Cereals and Grains, Oilseeds and Pulses, Fruits and Vegetables, and Others): Global Opportunity Analysis and Industry Forecast, 2024-2033." The global nano fertilizers market was valued at \$2.3 billion in 2023 and is projected to reach \$8.7 billion by 2033, growing at a CAGR of 14.3% from 2024 to 2033.



Nano Fertilizer Market

Request a sample of the report:

<https://www.alliedmarketresearch.com/request-sample/A141787>

Report Code: A141787

Drivers:

- Rising demand for increased agricultural productivity.
- Growing need for nutrient efficiency in farming.

Opportunities:

- Expansion of organic and precision agriculture.

Restraints:

- Limited awareness and knowledge about nano fertilizers.

Figure 1: Nano fertilizers market restraints

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The nitrogen segment dominated the market in 2023. Nano nitrogen fertilizers, developed from sources such as urea, ammonium sulfate, and ammonium nitrate, are engineered using nano-encapsulation and polymer coatings to enhance nitrogen efficiency. These fertilizers provide sustained nutrient release, improving crop yield while minimizing environmental impact.

Figure 2: Nano fertilizers market segments

The soil-treated segment led the market in 2023. Nano fertilizers in soil applications promote microbial activity, enhance root development, and enable better nutrient absorption due to their small particle size. This method ensures efficient fertilizer use, reducing waste and supporting sustainable farming practices.

Figure 3: Nano fertilizers market by crop type

The cereals and grains segment held the largest market share in 2023. Nano fertilizers enhance plant growth, chlorophyll content, and grain quality. For example, nano-encapsulated nitrogen fertilizers improve nitrogen use efficiency, leading to increased vegetative growth and higher protein content in grains. Nano zinc fertilizers also play a crucial role in addressing zinc deficiencies, contributing to healthier crops and better nutritional value.

Figure 4: Nano fertilizers market by region

Asia-Pacific emerged as the leading region in the nano fertilizers market in 2023. Countries such as China, India, Japan, and Australia are increasingly adopting nano fertilizers to enhance nutrient efficiency and reduce environmental impact. In India, initiatives by the Indian Farmers Fertiliser Cooperative (IFFCO) have promoted the use of nano urea, significantly improving nitrogen utilization and reducing excessive chemical fertilizer application. Similarly, China is incorporating nanotechnology into precision agriculture to optimize nutrient delivery and enhance sustainable farming practices.

Figure 5: Nano fertilizers market by application

- Indian Farmers Fertiliser Cooperative Limited

- Indogulf BioAg LLC

- Nanotech-Agri
- Ray Nano Science & Research Center
- Kanak Biotech
- EuroChem Group AG
- Lazuriton Nano Biotechnology Co., Ltd.
- Geolife Agritech India Pvt. Ltd.
- Coromandel International Ltd.
- Aqua Yield Operations, LLC

These key players are actively involved in product innovation, strategic partnerships, and market expansion to strengthen their presence in the global nano fertilizers industry.

The report offers in-depth analysis, covering market trends, competitive landscape, and strategic moves by major players, making it a valuable resource for stakeholders and investors.

For more information, visit <https://www.alliedmarketresearch.com/nano-fertilizers-market/purchase-options>

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