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Agricultural Grade Zinc Chemicals Market Forecasts to 2032 – Global Analysis By Type (Zinc Sulfate, Zinc Oxide, Chelated Zinc, Zinc Carbonate and Zinc Nitrate) Crop Type, Form, Distribution Channel, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Agricultural Grade Zinc Chemicals Market is accounted for $906.7 million in 2025 and is expected to reach $1494.6 million by 2032 growing at a CAGR of 7.4% during the forecast period. Agricultural grade zinc chemicals refer to zinc-based compounds specifically formulated for use in agriculture to address zinc deficiency in soil and plants. These chemicals are essential micronutrients that support vital plant functions such as enzyme activity, protein synthesis, and growth regulation. Common forms include zinc sulfate, zinc oxide, and chelated zinc, which are applied through soil treatment, foliar sprays, or fertigation. By improving crop yield and quality, agricultural grade zinc chemicals play a crucial role in sustainable farming practices.

According to the International Zinc Association (IZA), zinc-binding proteins account for around 10% of all the proteins in the entire biological system.

Market Dynamics:

Driver:

Rising demand for high-yield crops

The rising demand for high-yield crops is significantly boosting the agricultural grade zinc chemicals market. Zinc, a vital micronutrient, enhances seed germination, root

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development, and disease resistance, leading to improved crop productivity. As farmers aim to maximize yields to meet global food demands, the use of zinc-based fertilizers becomes essential. Government initiatives promoting micronutrient usage and advancements in fertilizer technology, such as zinc-enriched formulations, further drive this market growth.

Restraint:

High cost of zinc-based fertilizers

The high cost of zinc-based fertilizers negatively impacts the Agricultural Grade Zinc Chemicals Market by limiting affordability for farmers, especially in developing regions. This leads to reduced demand for zinc fertilizers, hindering market growth. Increased costs also discourage widespread adoption of zinc-rich agricultural products, which are essential for improving crop yields and soil health, thereby impeding overall agricultural productivity and sustainability efforts.

Opportunity:

Growing adoption of precision farming

The growing adoption of precision farming is absolutely impacting the Agricultural Grade Zinc Chemicals Market. By enabling targeted nutrient application, precision agriculture enhances the efficiency of zinc fertilizers, leading to improved crop yields and soil health. This approach addresses zinc deficiencies effectively, promoting sustainable farming practices. Consequently, there's an increased demand for specialized zinc formulations, such as chelates and nano-fertilizers, tailored for precise application methods. This trend is driving innovation and expansion within the zinc chemicals sector.

Threat:

Availability of substitute micronutrients

The availability of substitute micronutrients can negatively impact the Agricultural Grade Zinc Chemicals Market by reducing demand for zinc-based products. As alternative micronutrients like manganese, iron, or copper are increasingly used in agricultural practices, they may lower the reliance on zinc fertilizers and supplements. This shift can hinder market growth, particularly in regions where zinc deficiency is less pronounced,

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leading to reduced sales and stunted market expansion for zinc chemicals.

Covid-19 Impact

The COVID-19 pandemic significantly disrupted the agricultural grade zinc chemicals market due to supply chain interruptions, reduced workforce availability, and delayed manufacturing. The demand for zinc-based fertilizers initially decreased as farming activities slowed during lockdowns. However, as the agricultural sector recovered, the market rebounded, with growing awareness of zinc's importance in improving crop yields and soil health driving demand for these chemicals post-pandemic.

The foliar sprays segment is expected to be the largest during the forecast period

The foliar sprays segment is expected to account for the largest market share during the forecast period, as Foliar sprays enable quicker nutrient absorption, enhancing crop yield and quality. This segment is gaining traction due to its ease of use, cost-effectiveness, and ability to address zinc deficiencies rapidly during critical growth stages. Increasing adoption of precision agriculture and sustainable farming practices further boosts demand, positioning foliar sprays as a key contributor to market growth.

The horticulturalists segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the horticulturalists segment is predicted to witness the highest growth rate, because it enhances crop yield and quality. As horticulturalists increasingly adopt zinc-based fertilizers to address soil deficiencies, especially in fruits, vegetables, and ornamental plants, demand for agricultural grade zinc chemicals rises. Their focus on sustainable farming and high-value crops further amplifies the need for precise nutrient management, positioning zinc as a critical input in boosting plant health, productivity, and resistance to diseases.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to demand for crop productivity and soil health enhancement. Zinc is an essential micronutrient for plant growth, driving the adoption of zinc-based fertilizers and soil additives. With rising agricultural practices focused on sustainable farming and higher crop yields, the market benefits from government support, technological advancements, and increasing awareness of zinc's role in improving crop quality and

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quantity, especially in emerging economies.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to increasing demand for zinc-based fertilizers to enhance soil health and boost crop yields. The rising awareness of micronutrient deficiencies in soils, coupled with the adoption of advanced agricultural practices, fuels market expansion. Government initiatives promoting sustainable farming and the growing focus on food security further support the market. These factors collectively contribute to the robust development of the Agricultural Grade Zinc Chemicals Market in the region.

Key players in the market

Some of the key players profiled in the Agricultural Grade Zinc Chemicals Market include Yara International, Nutrien Ltd., The Mosaic Company, ICL Group Ltd., BASF SE, Nufarm Limited, Syngenta AG, Gujarat State Fertilizers & Chemicals Ltd. (GSFC), Aries Agro Limited, Coromandel International Limited, Zinc Nacional S.A., Kronos Worldwide, Inc., Old Bridge Chemicals, Inc., Evergrow Group, Haifa Group, Akrochem Corporation, H.J. Baker & Bro., LLC, UPL Limited, Balaji Agro Chemicals and Sikko Industries Ltd.

Key Developments:

In October 2024, BASF made a strategic partnership with Aspen Aerogels to enhance its aerogel product offerings and expand its market reach. This partnership is set to drive innovation in aerogel technologies, particularly in high-performance insulation materials.

In July 2024, BASF launched Haptex 4.0, an innovative polyurethane solution for the production of synthetic leather that is 100% recyclable. Synthetic leather made with Haptex 4.0 and polyethylene terephthalate (PET) fabric can be recycled together using an innovative formulation and recycling technical pathway without the need of layer peel-off process.

In July 2024, BASF successfully commissioned a pilot plant dedicated to producing SLENTITE®, a cutting-edge polyurethane-based aerogel insulation panel. This innovative product is designed to meet the increasing demand for efficient thermal insulation in construction, offering a unique combination of lightweight characteristics

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and mechanical strength.

Types Covered:

- Zinc Sulfate
- Zinc Oxide
- Chelated Zinc
- Zinc Carbonate
- Zinc Nitrate

Crop Types Covered:

- Cereals & Grains
- Fruits & Vegetables
- Oilseeds & Pulses
- Commercial Crops
- Other Crop Types

Forms Covered:

- Powder
- Granules
- Liquid

Distribution Channels Covered:

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- Direct Sales
- Distributors/Wholesalers
- Online Retail

Applications Covered:

- Fertilizers
- Animal Feed Additives
- Crop Protection Chemicals
- Soil Amendments
- Foliar Sprays
- Other Applications

End Users Covered:

- Agricultural Enterprises
- Horticulturalists
- Organic Farmers

Regions Covered:

- North America
  - US
  - Canada

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- Mexico

Europe

- Germany
- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

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- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

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- Brazil
- Chile

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Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

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Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

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Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Contents

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5 GLOBAL AGRICULTURAL GRADE ZINC CHEMICALS MARKET, BY TYPE

5.1 Introduction
5.2 Zinc Sulfate
5.3 Zinc Oxide
5.4 Chelated Zinc
5.5 Zinc Carbonate
5.6 Zinc Nitrate

6 GLOBAL AGRICULTURAL GRADE ZINC CHEMICALS MARKET, BY CROP TYPE

6.1 Introduction
6.2 Cereals & Grains
6.3 Fruits & Vegetables
6.4 Oilseeds & Pulses
6.5 Commercial Crops
6.6 Other Crop Types

7 GLOBAL AGRICULTURAL GRADE ZINC CHEMICALS MARKET, BY FORM

7.1 Introduction
7.2 Powder
7.3 Granules
7.4 Liquid

8 GLOBAL AGRICULTURAL GRADE ZINC CHEMICALS MARKET, BY DISTRIBUTION CHANNEL

8.1 Introduction
8.2 Direct Sales
8.3 Distributors/Wholesalers
8.4 Online Retail

9 GLOBAL AGRICULTURAL GRADE ZINC CHEMICALS MARKET, BY APPLICATION

9.1 Introduction
9.2 Fertilizers
9.3 Animal Feed Additives

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12 KEY DEVELOPMENTS

13 COMPANY PROFILING

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List Of Tables

LIST OF TABLES

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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