

Trace Minerals in Feed Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented By Type (Zinc, Iron, Cobalt, Copper, Manganese, Others), By Livestock (Poultry, Ruminants, Swine, Aquatic Animals, Others), By Form (Dry, Liquid), By Chelate Type (Amino Acids, Proteinates, Polysaccharide Complexes, Others), By Region and Competition

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Abstracts

The Global Trace Minerals in Feed Market is anticipated to grow significantly through 2028 due to the increasing production of compound feed. In 2021, compound feed production in South Korea amounted to approximately 19 million tonnes.

The Global Trace Minerals in Feed market is expected to expand during the projected period due to the increasing production of compound feed, as it provides a balanced and nutritious diet for animals. Trace minerals are used in smaller quantities but play an important role in the growth and performance enhancement of animals. With the increasing demand and use of healthier and protein-rich livestock products, consumers focus on healthy animal food, which can be achieved by using nutrients in animal feed, resulting in the market's growth in the upcoming years.

Rising Production of Compound Feed:

Compound feed production is the process of combining several elements, such as minerals, protein meals, grains, and vitamins, to produce nutritionally balanced feed for livestock. Compound feed is frequently utilized in the animal agriculture sector since it

offers a practical and affordable solution to meet the dietary demands of animals. Compound feed production has been steadily increasing due to the growing demand for animal protein, increasing livestock and poultry populations, and the adoption of modern animal production practices. Animals continue to contribute significantly to the world's food supply. Animal feeds have thus grown in importance as part of the integrated food chain. A significant portion of meeting consumer demand for animal protein, such as milk, meat, eggs, and other livestock products, depends on the availability of a consistent supply of suitable, economical, and secure compound feeds. As a result, there is a growing need for more feed supplies, sources, and alternatives due to the significant growth in the demand for livestock products. Another contributing factor is the adoption of intensive farming and the use of automated feeding processes, which require large quantities of compound feed.

Moreover, technological advancements and the use of precision nutrition have led to the creation of customized compound feed formulations, which can improve animal performance and reduce feed waste.

Additionally, appropriate dietary intensity is one of the most costly feed formulation ingredients in animal diets. To overcome this issue, manufacturers are improving their quality and safety while maintaining cost-effectiveness in response to the increased demand for safe and nutrient-rich animal feed. The use of trace minerals in feed results in improved animal productivity, growth, performance, and other advantages. As a result, it is becoming a practical and affordable method for increasing animal output for long-term food security.

For instance, according to the International Feed Industry Federation (IFIF), annual compound feed production has reached 0.9 billion tonnes globally. According to IFIF, in 2020, compound feed production in the USA was more than 215.79 MT.

Furthermore, in 2023, The Food and Agriculture Organization of the United Nations (FAO), in collaboration with the Ministry of Agriculture, Land and Fisheries in Trinidad and Tobago, the University of the West Indies (UWI), St. Augustine Campus, and Fera Science Ltd., focused on the production and use of the black soldier fly (BSF) as an alternative source of high-quality protein for poultry and aquaculture feed.

Therefore, the increasing production of compound feed is due to the growing demand for animal protein, the advancement of technology and nutrition, and the adoption of intensive farming and the use of automated feeding processes, collectively resulting in the growth of the market in the forecast years.

Growing Demand for Animal Nutrients in Livestock Production

The adoption of animal nutrients in livestock production is fueled by growing consumer awareness of the importance of high-quality standards in foods, including meat and other animal protein products, as well as increasing awareness about providing adequate nutrition levels in animal feed to improve the health and productivity of livestock. Eggs, dairy goods, and meat products are included in livestock-based products. The addition of animal nutrients in feed to the diet of livestock aids in the provision of enough vitamins, minerals, and protein supplements to improve nutrition, resulting in better production of livestock-based products like milk and meat. The demand for animal nutrients in feed is being driven by a rise in the acceptance and consumption of dairy and meat products, as well as the sales of items derived from livestock.

For instance, in 2020, according to the U.S. Department of Agriculture (USDA) data, dairy consumption in America was around 655 pounds of dairy in cheese, milk, butter, yogurt, ice cream, and other wholesome and nutritious dairy foods.

Moreover, deficits in particular minerals, including calcium, magnesium, zinc, selenium, and manganese, can impair the balance of hormones that regulate gestation and parturition, increasing the risk of mastitis and placental retention, and decreasing cow fertility. In severe circumstances, improper nutrition can also result in increased calf death rates, limited growth after delivery, and poor fetal development. Therefore, animal nutrients play an important role in supporting the growth, reproduction, and health of livestock.

For instance, according to a study by Kansas State University in March 2023, fatty acids in the diet for cattle help improve reproductive performance.

Livestock farmers provide proper nutrients to animals, which help improve animal performance and reduce the risk of diseases, resulting in sustainable and more efficient livestock production.

In addition, advanced research in animal nutrition led to the development of more specialized animal nutrient products. Enzymes, probiotics, and prebiotics are used to improve animal health and increase nutrient absorption, whereas the use of chelated and organic minerals aids in improving mineral bioavailability and reducing environmental waste.

Therefore, the increasing demand for animal protein, the need to improve animal productivity and efficiency, and the advancements in animal nutrition research and technology, resulting in increasing demand for animal nutrients, are leading to the growth of the Global Trace Minerals in Feed market in the upcoming years.

Amino Acids will be the Key Chelate Type

Amino acids act as the building blocks for animal protein synthesis and are essential for enhancing both the quality and quantity of meat. An adequate amount of protein is one of the most important developments in animal nutrition. An amino acid contains proteins and polypeptides that support improved growth rate, help increase production, and reduce incidences of disease in animals. In addition to promoting growth and nitrogen retention in cattle, it also helps animals maintain a balanced amino acid pattern. Many amino acids are given as supplements to farmed animals to increase their productivity. Amino acids such as DL-methionine, L-threonine, and L-lysine help improve the synthetic efficiency of protein in animal feed and also help to break down the food. Amino acids enter the small intestine where they are absorbed easily into the bloodstream.

For instance, ADM Animal Nutrition launched PROPLEX T, a high-concentrate protein that provides flexibility in ration formulation due to the lower inclusion rate needed to achieve targeted levels of essential amino acids.

Thus, the use of amino acids as a chelating source in animal feed is a market propelling factor in the forecast period.

A modest deficit in trace minerals might result in a significant decline in performance and output. Many minerals play extremely distinct yet frequently diverse roles as they help maintain acid-base balance to keep the body pH neutral. The limited presence of waste materials, such as impurities, leads to an increase in the cost of raw materials as the purity increases, ultimately driving up the cost of trace minerals as a whole. The poor uptake of trace minerals by animal farmers is a result of such high prices, which results in slowing down the market growth. Rigid regulatory frameworks setting allowable limits are necessary because excessive or improper usage of trace elements results in a number of health issues that have an impact on animal productivity, further slowing down the market growth.

Recent Developments

In November 2022, Alltech opened a trace mineral production facility in Vietnam.

Kemin industries expanded encapsulation capabilities at the manufacturing site in Italy in November 2022.

In December 2021, Societ? San Marco S.R.L. provided liquid feed supplements for poultry.

Balchem Animal Nutrition & Health launched the Purachol Choline chloride line in January 2021.

Market Segmentation

Global Trace Minerals in Feed Market is segmented based on type, livestock, form, chelate type, region and competitive landscape. Based on type, the market is categorized into zinc, iron, cobalt, copper, manganese, and others. Based on livestock, the market is fragmented into poultry, ruminants, swine, aquatic animals, and others. Based on form, the market is segregated into dry and liquid. Based on chelate type, the market is divided into amino acids, proteinates, polysaccharide complexes, and others. Based on region, the market is divided into North America, Europe, Asia Pacific, South America, Middle East & Africa.

Company Profiles

Titan Biotech Limited, Balchem Inc., Novus International, Inc., Alltech, Inc., Kemin Industries, Inc., Global Animal Products, Inc., Societ? San Marco S.R.L., BASF SE, Zinpro Corp., Orffa International Holding B.V. are some of the key players of Global Trace Minerals in Feed Market.

Report Scope:

In this report, Global Trace Minerals in Feed Market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Trace Minerals in Feed Market, By Type:

Zinc

Iron

Cobalt

Copper

Manganese

Others

Trace Minerals in Feed Market, By Livestock:

Poultry

Ruminants

Swine

Aquatic Animals

Others

Trace Minerals in Feed Market, By Form:

Dry

Liquid

Trace Minerals in Feed Market, By Chelate Type:

Amino Acids

Proteinates

Polysaccharide Complexes

Others

Trace Minerals in Feed Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Spain

Italy

Asia-Pacific

China

India

South Korea

Japan

Australia

South America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive landscape

Company Profiles: Detailed analysis of the major companies in Global Trace Minerals in Feed market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL TRACE MINERALS IN FEED MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Zinc, Iron, Cobalt, Copper, Manganese, Others)
 - 5.2.2. By Livestock (Poultry, Ruminants, Swine, Aquatic Animals, Others)
 - 5.2.3. By Form (Dry, Liquid)

5.2.4. By Chelate Type (Amino Acids, Proteinates, Polysaccharide Complexes, Others)

5.2.5. By Region (North America, Europe, Asia Pacific, South America, Middle East & Africa)

5.2.6. By Company (2022)

5.3. Market Map

5.3.1. By Type

5.3.2. By Livestock

5.3.3. By Form

5.3.4. By Chelate Type

5.3.5. By Region

6. NORTH AMERICA TRACE MINERALS IN FEED MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By Livestock

6.2.3. By Form

6.2.4. By Chelate Type

6.2.5. By Country

6.3. North America: Country Analysis

6.3.1. United States Trace Minerals in Feed Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Type

6.3.1.2.2. By Livestock

6.3.1.2.3. By Form

6.3.1.2.4. By Chelate Type

6.3.2. Mexico Trace Minerals in Feed Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Type

6.3.2.2.2. By Livestock

6.3.2.2.3. By Form

6.3.2.2.4. By Chelate Type

6.3.3. Canada Trace Minerals in Feed Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Type

6.3.3.2.2. By Livestock

6.3.3.2.3. By Form

6.3.3.2.4. By Chelate Type

7. EUROPE TRACE MINERALS IN FEED MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type

7.2.2. By Livestock

7.2.3. By Form

7.2.4. By Chelate Type

7.2.5. By Country

7.3. Europe: Country Analysis

7.3.1. France Trace Minerals in Feed Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Type

7.3.1.2.2. By Livestock

7.3.1.2.3. By Form

7.3.1.2.4. By Chelate Type

7.3.2. Germany Trace Minerals in Feed Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Type

7.3.2.2.2. By Livestock

7.3.2.2.3. By Form

7.3.2.2.4. By Chelate Type

7.3.3. United Kingdom Trace Minerals in Feed Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

- 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By Livestock
 - 7.3.3.2.3. By Form
 - 7.3.3.2.4. By Chelate Type
- 7.3.4. Spain Trace Minerals in Feed Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By Livestock
 - 7.3.4.2.3. By Form
 - 7.3.4.2.4. By Chelate Type
- 7.3.5. Italy Trace Minerals in Feed Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By Livestock
 - 7.3.5.2.3. By Form
 - 7.3.5.2.4. By Chelate Type

8. ASIA-PACIFIC TRACE MINERALS IN FEED MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Livestock
 - 8.2.3. By Form
 - 8.2.4. By Chelate Type
 - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Trace Minerals in Feed Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Livestock

- 8.3.1.2.3. By Form
- 8.3.1.2.4. By Chelate Type
- 8.3.2. India Trace Minerals in Feed Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Livestock
 - 8.3.2.2.3. By Form
 - 8.3.2.2.4. By Chelate Type
- 8.3.3. South Korea Trace Minerals in Feed Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Livestock
 - 8.3.3.2.3. By Form
 - 8.3.3.2.4. By Chelate Type
- 8.3.4. Japan Trace Minerals in Feed Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Livestock
 - 8.3.4.2.3. By Form
 - 8.3.4.2.4. By Chelate Type
- 8.3.5. Australia Trace Minerals in Feed Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Livestock
 - 8.3.5.2.3. By Form
 - 8.3.5.2.4. By Chelate Type

9. SOUTH AMERICA TRACE MINERALS IN FEED MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Type

9.2.2. By Livestock

9.2.3. By Form

9.2.4. By Chelate Type

9.2.5. By Country

9.3. South America: Country Analysis

9.3.1. Brazil Trace Minerals in Feed Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Type

9.3.1.2.2. By Livestock

9.3.1.2.3. By Form

9.3.1.2.4. By Chelate Type

9.3.2. Argentina Trace Minerals in Feed Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Type

9.3.2.2.2. By Livestock

9.3.2.2.3. By Form

9.3.2.2.4. By Chelate Type

10. MIDDLE EAST AND AFRICA TRACE MINERALS IN FEED MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Type

10.2.2. By Livestock

10.2.3. By Form

10.2.4. By Chelate Type

10.2.5. By Country

10.3. MEA: Country Analysis

10.3.1. South Africa Trace Minerals in Feed Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

- 10.3.1.2.1. By Type
- 10.3.1.2.2. By Livestock
- 10.3.1.2.3. By Form
- 10.3.1.2.4. By Chelate Type
- 10.3.2. Saudi Arabia Trace Minerals in Feed Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Livestock
 - 10.3.2.2.3. By Form
 - 10.3.2.2.4. By Chelate Type
- 10.3.3. UAE Trace Minerals in Feed Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By Livestock
 - 10.3.3.2.3. By Form
 - 10.3.3.2.4. By Chelate Type

11. MARKET DYNAMICS

11.1. Drivers

- 11.1.1. Rise in the production of Compound Feed
- 11.1.2. Increasing demand of animal nutrients in Livestock production
- 11.1.3. Growing awareness among the consumers

11.2. Challenges

- 11.2.1. Fluctuation in raw material costs
- 11.2.2. Stringent regulation's structure governing the permissible limits

12. MARKET TRENDS & DEVELOPMENTS

12.1. Product Launches

12.2. Mergers & Acquisitions

12.3. Technological Advancements

13. GLOBAL TRACE MINERALS IN FEED MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. Business Overview
- 15.2. Product Offerings
- 15.3. Recent Developments
- 15.4. Financials (In Case of Listed Companies)
- 15.5. Key Personnel
- 15.6. SWOT Analysis
 - 15.6.1. Titan Biotech Limited
 - 15.6.2. Balchem Inc.
 - 15.6.3. Novus International, Inc.
 - 15.6.4. Alltech, Inc.
 - 15.6.5. Kemin Industries, Inc.
 - 15.6.6. Global Animal Products, Inc.
 - 15.6.7. Societ? San Marco S.R.L.
 - 15.6.8. BASF SE
 - 15.6.9. Zinpro Corp.
 - 15.6.10. Orffa International Holding B.V.

16. STRATEGIC RECOMMENDATIONS

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