

# Silicon Fertilizer Market Report by Type (Synthetic, Natural), Form (Liquid, Solid), Application (Field Crops, Horticultural Crops, Hydroponics, Floriculture), and Region 2024-2032

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## Abstracts

The global silicon fertilizer market size reached US\$ 107.4 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 142.2 Million by 2032, exhibiting a growth rate (CAGR) of 3.1% during 2024-2032.

Silicon fertilizer refers to a chemical or natural substance that involves the deposition of silicon in soil, land, or plant epidermal tissue to improve crop growth and yield. Calcium, sodium and potassium silicate are some of the commonly available types of silicon fertilizers usually consisting of silicic acid, or silicon acid, silicon conditioners, and other products. Silicon fertilizers are widely used in field, hydroponics, floriculture and horticulture crops, such as cereals, soybean, wheat, and vegetable sugarcane. They assist in strengthening cell walls, providing resistance against bacterial and fungal diseases, preventing lodging, and decreasing biotic and abiotic stress, thus enhancing the growth and yield of all annual and vegetable crops. Currently, silicon fertilizers are available in solid and liquid forms.

### Silicon Fertilizer Market Trends:

Significant growth in the agriculture sector, along with the rising food demand due to rapid population expansion, especially in emerging economies, is one of the factors creating a positive outlook for the market. Silicone fertilizers are widely employed in the production of various crops, such as cucumber, wheat, barley, sugarcane, corn and tomato. In line with this, the increasing instances of plant diseases, such as leaf freckling rust and ring spots, have further intensified the adoption of silicon fertilizers amongst farmworkers to offer resistance against plant insects and unfavorable climatic

conditions, thus propelling the market growth. Apart from this, various product innovations, such as the large-scale employment of organic silicon fertilizers in organic farming practices that are more sustainable and environmentally friendly, are also providing an impetus to the market growth. Other factors, including the increasing availability of cultivable land and the implementation of various government initiatives over food security, are anticipated to drive the market toward growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global silicon fertilizer market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, form and application.

#### Breakup by Type:

- Synthetic
- Natural

#### Breakup by Form:

- Liquid
- Solid

#### Breakup by Application:

- Field Crops
- Horticultural Crops
- Hydroponics
- Floriculture

#### Breakup by Region:

- North America
  - United States
  - Canada
- Asia-Pacific
  - China
  - Japan
  - India

South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agripower Australia Ltd., Jaipur Bio Fertilizers, Khandelwal Biofertilizer, MaxSil Pty Ltd., Plant Tuff, Redox Pty Ltd., Satpura Bio Fertiliser India Private Limited, Sigma AgriScience LLC and Vedant Agrotech.

Key Questions Answered in This Report:

How has the global silicon fertilizer market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global silicon fertilizer market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the form?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global silicon fertilizer market and who are the key players?

What is the degree of competition in the industry?

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