

Global Biogenic Silicon Enriched Crop Fortification Fertilizer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biogenic Silicon Enriched Crop Fortification Fertilizer market size is expected to reach \$ 383 million by 2032, rising at a market growth of 12.1% CAGR during the forecast period (2026-2032).

Biogenic silicon enriched crop fortification fertilizers are specialty fertilizer products formulated to deliver plant-available silicon (Si) derived from biogenic sources through processes that convert silicon into bioavailable forms (primarily monosilicic acid) for crop nutrition and fortification. In 2025, global biogenic silicon enriched crop fortification fertilizer production reached approximately 66,952 ton, with an average global market price of around USD 2,500 per ton. A factory gross profit of USD 625 per ton with 25% gross margin. A single line full machine capacity production is around 500 ton per line per year. The upstream is dependent on biogenic silica, stabilisation agents and packaging. The downstream demand is concentrated in horticultural crops, cereals and oilseeds. Biogenic silicon fertilizers is sprayed to the rice cultivation to Strengthened stems, reduced lodging and improved grain yield. China and India market are driven by large rice producer and high demand. Brazil market is driven by expanding soybean and corn area.

This report studies the global Biogenic Silicon Enriched Crop Fortification Fertilizer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biogenic Silicon Enriched Crop Fortification 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 Biogenic Silicon

Enriched Crop Fortification Fertilizer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biogenic Silicon Enriched Crop Fortification Fertilizer total production and demand, 2021-2032, (Tons)

Global Biogenic Silicon Enriched Crop Fortification Fertilizer total production value, 2021-2032, (USD Million)

Global Biogenic Silicon Enriched Crop Fortification Fertilizer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Biogenic Silicon Enriched Crop Fortification Fertilizer consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Biogenic Silicon Enriched Crop Fortification Fertilizer domestic production, consumption, key domestic manufacturers and share

Global Biogenic Silicon Enriched Crop Fortification Fertilizer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Biogenic Silicon Enriched Crop Fortification Fertilizer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Biogenic Silicon Enriched Crop Fortification Fertilizer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Biogenic Silicon Enriched Crop Fortification 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 Nutrien Ltd., Yara International, ICL Group, Haifa Group, EuroChem Group, UPL Ltd., Mosaic Company, Bayer Crop Science, BASF SE, Biolchim S.p.A., 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 Biogenic Silicon Enriched Crop Fortification Fertilizer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, 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 Biogenic Silicon Enriched Crop Fortification Fertilizer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biogenic Silicon Enriched Crop Fortification Fertilizer Market, Segmentation by Type:

Plant Based Silica

Diatomaceous Earth

Microbial Assisted Silicon Release

Stabilized Orthosilicic Acid

Others

Global Biogenic Silicon Enriched Crop Fortification Fertilizer Market, Segmentation by Application Method:

Soil Application

Foliar Spray

Drip Irrigation

Seed Priming

Others

Global Biogenic Silicon Enriched Crop Fortification Fertilizer Market, Segmentation by pH:

Alkaline (> pH 9.0)

Neutral (pH 6.0-9.0)

Acidic (pH

Global Biogenic Silicon Enriched Crop Fortification Fertilizer Market, Segmentation by Application:

Horticultural Nurseries

Commercial Farming

Residential Gardening

Organic and Sustainable Agriculture

Others

Companies Profiled:

Nutrien Ltd.

Yara International

ICL Group

Haifa Group

EuroChem Group

UPL Ltd.

Mosaic Company

Bayer Crop Science

BASF SE

Biolchim S.p.A.

Corteva Inc.

Certis Biologicals

Agripower

PlantoSys Nederland

NCS Green Earth Pvt Ltd

Orion FT

Eutrema

Leading Bio-Agriculture

Hebei Mengbang

Green Power

Quytech

Shandong Lvfheng Fertilizer

Sichuan Xingdaheng Technology

Zhongnong Lvhe Silicon

Shanxi Fubon Fertilizer

Haitor

Fuji Silysia Chem

Denka

Fertipower Norway

Plant Tuff

Key Questions Answered:

1. How big is the global Biogenic Silicon Enriched Crop Fortification Fertilizer market?
2. What is the demand of the global Biogenic Silicon Enriched Crop Fortification Fertilizer market?
3. What is the year over year growth of the global Biogenic Silicon Enriched Crop Fortification Fertilizer market?
4. What is the production and production value of the global Biogenic Silicon Enriched Crop Fortification Fertilizer market?
5. Who are the key producers in the global Biogenic Silicon Enriched Crop Fortification Fertilizer market?
6. What are the growth factors driving the market demand?

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