



BioWorks®

DIVISION OF BIOFIRST GROUP



ABOVE AND BEYOND IS WHERE WE BEGIN



STEMMER™

Stemmer is a bioavailable silicic acid that is readily absorbed by plants, supporting stronger growth and greater tolerance to abiotic stress than traditional silica products, leading to improved crop performance and increased yields.

By increasing nutrient mobility, Stemmer improves nutrient and water use efficiency, strengthens plant cell walls, enhances tissue integrity, and promotes stronger, more upright growth. These combined benefits support healthier plant development and help maintain productivity under challenging environmental conditions, including drought, heat, and frost. Stemmer's 100% soluble formulation easily integrates into existing fertility and crop protection programs for easy application and consistent, season-long performance.



STEMMER'S SOLUABLE SILICON CREATES THICKER PLANT CELL WALLS TO STRENGTHEN PLANT TISSUE AND IMPROVE DROUGHT AND STRESS RESISTANCE

ACTIVE INGREDIENTS

Soluble Silicon

FEATURES AND BENEFITS

- + Readily available and 100% soluble source of silicon for ease of application and optimal performance.
- + Improves nutrient and water use efficiency.
- + Enhances mobility of hard-to-move nutrients like Calcium.
- + Increases tolerance to abiotic stresses like salinity, heavy metals, UV radiation, drought, heat, and frost.
- + Promotes upright growth, enhances color and overall plant vigor.

WHERE TO USE

For use in greenhouse, shadehouse, interiorscape, nursery, and open field/specialty crop production, including food and non-food crops.



STEMMER™

PRODUCT INFORMATION

- + Available size: 1 gallon
- + Registered for use in all 50 states
- + Please visit bioworksinc.com/products/stemmer for more information

REI & PHI

- + 0-hour REI, 0-day PHI

SHELF LIFE

- + Room temperature: 24 months
- + Store in a cool, dry place at or below 68 °F (20 °C)
- + Below 32 °F (0 °C): Do not freeze
- + Refrigerated 40 °F (4 °C): Not needed
- + Above 75 °F (24 °C): Not recommended, store at room temperature

APPLICATION NOTES

- + Stemmer is best used as a foliar spray but can also be applied to the root zone.
- + Stemmer is best applied frequently with low rates to ensure consistent and prolonged coverage in the plant.

APPLICATION RATES

FIELD RATES

- + Light: 8 fl. oz./acre (240 mL/acre)
- + Recommended: 13 fl. oz./acre (385 mL/acre)
- + Heavy: 32 fl.oz./acre (950 mL/acre)

INDOOR, GREENHOUSE, CONTAINERS

- + Volumetric rates: Light: 0.5 mL/gallon
- + Recommended: 1 mL/gallon
- + Heavy: 4 mL/gallon

GOING ABOVE AND BEYOND

At BioWorks, we not only help eradicate harmful diseases and pests that threaten your crops, but we design and support integrated plant health management programs. And because we know how quickly some diseases can work, we respond to any questions you might have in just 48 hours. So you can get back to the business of successful growing.



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