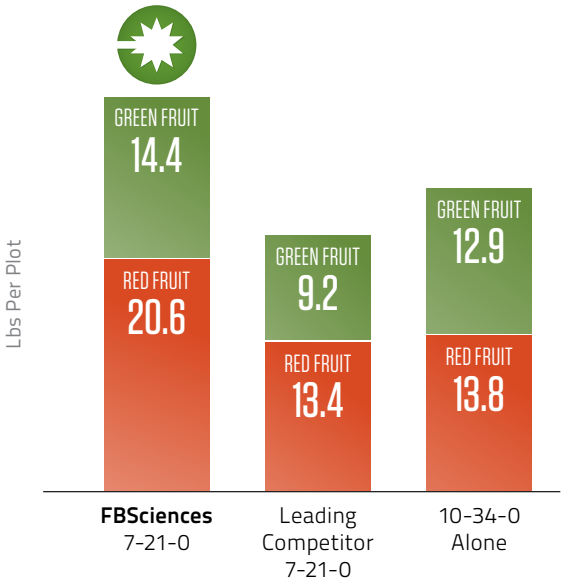
Phosron® Soil

ADVANCED PHOSPHATE NUTRITION WITH ZINC & MOLYBDENUM

Phosron® Soil is a premium, soil applied, high analysis phosphate product with zinc and molybdenum that is formulated with our FBS Transit® technology and other organic compounds that enhance the ability of crops to take up nutrients and store energy at key times. The unique formulation of Phosron Soil keeps phosphorus soluble and available for plant uptake even in adverse conditions i.e. high pH, calcareous soils, and poor water quality. Phosron Soil has incorporated crystal disruption technology that eliminates irrigation system scaling and plugging that is formed when applying phosphorus with high calcium irrigation waters.

- Supplies Readily Available Phosphate for Plants
- Molybdenum Helps the Plant Convert Nitrogen into Proteins
- Reduces Tie-ups of Phosphorus
- Crystal Disruption Technology that Eliminates Irrigation System Plugging
- Increases Soil Mobility
- Humic Acids to Protect Phosphate

Tomatoes (Processing) Yield Response



Trial Results for FBSciences 7-21-0

- Produced a 67% yield increase over the control
- Out-yielded Leading Brand by 55%, plus gave higher percent soluble solids (brix)
- Promoted more rooting and larger canopy, in line with the other formulations
- Directed growth toward the production of fruit

Contact FBSciences for additional details on this trial

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Powered by FBS TRANSIT®

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TECHNICAL INFORMATION

Phosron® Soil is a blend of technologies that prevents tie-ups in the soil, promotes superior uptake and translocation of soil applied nutrients. Phosron Soil is designed to help make phosphate more available to the plant.

Importance of Phosphorus in Plants

Phosphorus (P) is essential for photosynthesis to occur. Plants must have phosphorus for normal growth and maturity, as it is a vital part in photosynthesis, respiration, energy storage and transfer, and cell division. Phosphorus is involved in the formation of all oils, sugars, and starches, and encourages root development and early seedling growth to ensure a quick and healthy start for longer growing seasons. Phosphorus captures and converts the sun's energy into chemical energy and used by plants to form nucleic acids, which regulates protein synthesis.

Zinc is an essential constituent of several important enzyme systems and affects many metabolic processes in the plant. Zinc controls the synthesis of the important plant growth regulator indoleacetic acid, which is crucial for active growing tips and leaf enlargement. When zinc is deficient, terminal growth areas are the first areas to be impacted. Zinc is crucial for stress mitigation and a key part of most antioxidant systems in the plant. It combines with copper to create the plant's most effective response to abiotic stresses. Zinc is also critical in bud differentiation, making it important for long-term productivity in vineyard and orchard crops.

Molybdenum is a trace element found in the soil and is required for the synthesis and activity of the enzyme nitrate reductase. Molybdenum is vital for the process of symbiotic N fixation by Rhizobia bacteria in legume root modules. Plants also use molybdenum to convert inorganic phosphorus into organic forms in the plant.

RECOMMENDATION & COMPATIBILITY

For all crops, apply 5 to 20 gallons per acre. Phosron Soil can be applied by itself or with other fertilizers. Best results will be obtained when applications are watered in. Inject with a drip or sprinkler irrigation system. May be sprayed under the drip line of the plants or knifed in prior to a sprinkler or surface irrigation. Apply enough water to move the product in to the area of active rooting, but not excessive amounts that may leach the product below the root system. Use the higher label rates with surface and flood irrigation.

When mixing with other material such as calcium or other micronutrient fertilizers, always establish compatibility using the standard quart jar method prior to tank mixing. When blending with micronutrients additional water and agitation may be required. A citric acid buffering agent can also be used to improve compatibility.

See product label for complete Directions For Use.

7-21-0
GUARANTEED ANALYSIS

Total Nitrogen (N) **7.0%**

7.0% Ammoniacal Nitrogen

Available Phosphate (P_2O_5) **21.0%**

Molybdenum (Mo) **0.001%**

Zinc (Zn) **0.2%**

Derived from: Ammonium hydroxide, Phosphoric Acid, Ammonium polyphosphate, zinc gluconate, and sodium molybdate.

Net Weight

11.0 lbs per Gallon @ 68° F

1.3 kgs per Liter @ 20° C

ESSENTIAL ON A WIDE VARIETY OF CROPS

Recommended mixing sequence: water, adjuvants, pesticides, FBSciences nutrient products, other fertilizers, balance of water while agitating. When mixing with calcium or micronutrient fertilizers, add a citric acid buffer until the pH is 4.5 to 5.0 to improve compatibility and uptake. Ensure agitation is available when mixing with calcium fertilizers. A standard jar test is recommended before tank mixing.

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