

# Phosron® Soil Plus 1% Zn



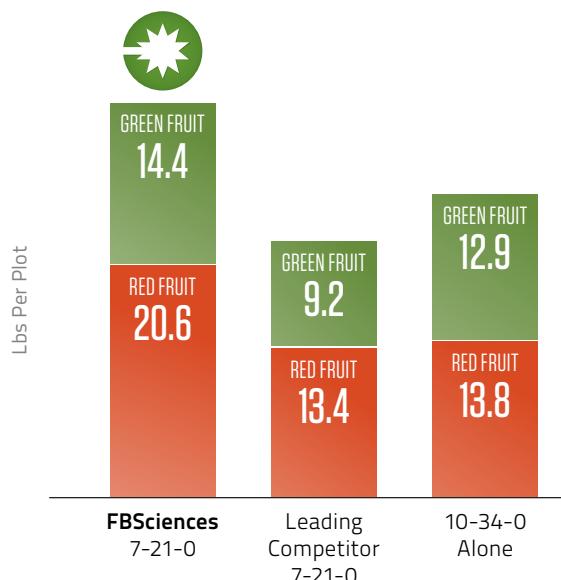
ADVANCED PHOSPHATE NUTRITION PLUS ZINC & MOLYBDENUM



Phosron® Soil Plus 1% Zn 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 Plus 1% Zn 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

# Phosron® Soil Plus 1% Zn

## TECHNICAL INFORMATION

Phosron® Soil Plus 1% Zn 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 in the plant. It controls the synthesis of indoleacetic acid, an important growth regulator that's crucial for active growing tips. Terminal growth areas are affected first when zinc is deficient.

**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

For all crops, apply 5 to 20 gallons per acre. Phosron Soil Plus 1% Zn 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.

## COMPATIBILITY

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.

7-21-0

## GUARANTEED ANALYSIS

Total Nitrogen (N) .....	7.0%
7.0% Ammoniacal Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	21.0%
Molybdenum (Mo) .....	0.001%
Zinc (Zn) .....	1.0%
1.0% Water Soluble Zinc	

Derived from: Ammonium polyphosphate, zinc sulfate, and sodium molybdate.

## Net Weight

10.8 lbs per Gallon @ 68° F

1.3 kgs per Liter @ 20° C

## ESSENTIAL ON A WIDE VARIETY OF CROPS

