

# Zicron<sup>®</sup> Soil

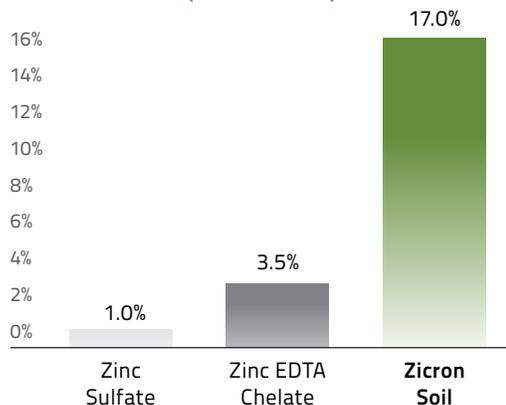
ADVANCED ZINC NUTRITION



Zicron<sup>®</sup> Soil is a premium, soil-applied zinc and manganese product formulated with FBS Transit<sup>®</sup>, our patented nutrient use efficiency technology, that is strongly protected with natural chelating agents to deliver highly efficient zinc that is readily available and mobile in the plant. Zicron Soil is designed to optimize photosynthetic output in all crops including tree nuts, vineyards, fruit, vegetable, grain, and forage crop. When combining zinc with manganese, these nutrients increase leaf size, internode spacing, and carbohydrate production.

- Improves Chlorophyll Production
- Resolves Zinc Chlorosis
- Balances Zinc with Manganese
- Resolves Little-Leaf & Rosetting Symptoms
- Improves Leaf Size
- Improves Frost Tolerance
- Increases Fruit Storability
- Improves Plant Health & Quality

## Zicron Soil Uptake Efficiency (2006-2021)



**Note:** Efficiency numbers for zinc sulfate and zinc EDTA are from UC California Cooperative Extension publications for vineyards and orchards.

Zicron Soil is 4.8 times more efficient than zinc EDTA.

# Zicron® Soil

## TECHNICAL INFORMATION

The nutrient and organic compounds in Zicron® Soil address zinc and manganese deficiencies commonly present in many soils.

### Importance of Zinc in Plants

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.

### Importance of Manganese in Plants

Manganese plays a key role in chlorophyll production. Because it is used to split the water molecule during Photosynthesis it is essential for plant health. Manganese also activates more enzymes than any other nutrient. It is especially important in the production of proteins that are part of the plant's natural defenses against disease.

**Root Exudates** are naturally produced by the plant in order to absorb soil minerals. Plants may have difficulties producing them under adverse conditions. However, the Zicron Soil formulation not only assures the plants' ability to get full use of the zinc and manganese, it also allows the plant to absorb other minerals in the soil such as iron, calcium and potassium.

## RECOMMENDATION & COMPATIBILITY

For all other crops apply 1 to 8 quarts per acre any time during the growing season. Repeat as needed. May be applied in combination with other FBSciences micronutrient technologies such as PhotoGreen® Soil.

Zicron Soil is part of a line of micronutrient technologies from FBSciences. When used together, these products are highly synergistic and provide our best results. Zicron Soil mixes well with most all crop protection applications, liquid fertilizers and wettable powders. DO NOT mix in concentrated form with any other tank additive without first adding water. Recommended mixing sequence: water, adjuvants, pesticides, FBSciences nutrient products, other fertilizers, balance of water while agitating. When mixing with high phosphate 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.

See product label for complete Directions For Use.

## GUARANTEED ANALYSIS

<b>Sulfur (S)</b> .....	<b>3.0%</b>
<b>Manganese (Mn)</b> .....	<b>1.0%</b>
<b>Zinc (Zn)</b> .....	<b>6.0%</b>

Derived from: manganese sulfate  
and zinc sulfate.

### Net Weight

11.1 lbs per Gallon @ 68° F

1.3 kgs per Liter @ 20° C

## ESSENTIAL ON A WIDE VARIETY OF CROPS

