**THE IMPORTANCE OF ZINC**

Zinc is one of the micronutrients required for plant growth and development. Zinc is essential for protein synthesis, seed and grain formation, plant maturity, growth regulation, and the formation of enzyme systems. Zinc is immobile in the soil, so a constant supply is needed for optimum growth.

Zinc deficiencies usually occur in heavily cropped fields, sandy soils, soils that have low organic matter with high and low pH levels, newly terraced fields or cold and wet soils. Zinc deficient soils cause stunted plant growth and ultimately a decrease in yield.

<table>
<thead>
<tr>
<th>Product &amp; Analysis</th>
<th>Features</th>
<th>Compatibility</th>
<th>Crops</th>
<th>Application Method</th>
<th>Use Rate (per acre)</th>
<th>Density (lbs/gal)</th>
<th>Freezing Pt. (°F)</th>
</tr>
</thead>
</table>
| EDTA Chelated Zinc 9% 9.0 Zn | • Compatible with most herbicides and insecticides  
• Fully-chelated solution  
• Contains essential nutrients for quick emergence and rapid zinc deficiency correction | - | Field & row crops; vegetables  
Tree & bramble fruits, nut trees, other fruits | Soil  
Foliar | 1-2 quarts  
1-2 pints | 10.9 | < -4 |
| Triple Crown™ 12-0-0 + 12.0 Zn | • Contains 3 different sources of zinc-EDTA, sulfate, ammonium chloride  
• Mixes with APP  
• Controls zinc deficiencies at germination | - | Field & row crops; vegetables | Soil | 1-3 quarts | 10.4 | < -4 |
| Nulex® Ammoniated Zinc 15% 13-0-0 + 15.0 Zn | • Compatible with APP, UAN, and ATS  
• Recommended to mix with liquid fertilizer in the spring prior to planting  
• Promotes healthy plants and higher yields | - | Field crops | Soil | 0.75-9 pints | 10.8 | 10 |
| Citric Chelated Zinc 10% 2.0 S, 10.0 Zn | • Compatible with most herbicides, insecticides, and other chemicals  
• May be used as an additive for dry or liquid fertilizer  
• Recommended to mix with liquid fertilizer at planting | - | Field & row crops; vegetables | Soil | 0.5-4 quarts | 10.3 | 32 |
**Wisconsin | 2013**

**Roles of Zinc**
- Aids in synthesis of plant-growth substances and enzyme systems
- Essential for promoting certain metabolic reactions
- Availability decreases as soil pH increases

**Zinc Deficiency Symptoms**
- **Corn:** white to yellow bands begin at the base of the leaf; midrib and leaf margins remain green
- **Soybeans:** yellow and possibly bronze coloration of leaf edges and tips

**Summary:** In a trial conducted in Wisconsin in 2013, a 3.4 bu/A increase in yield was observed with the addition of Triple Crown to 10-34-0 at planting.

**Ohio | 2016**

**Summary:** In a trial conducted in Ohio in 2016, a 3.6 bu/A increase in yield was observed with the addition of Nulex 15% to 19-17-0 at planting. Nulex treated plants had an increase in root mass by V5.

---

To see how these products can be used in a complete nutrition program visit CROPCOACH.COM