

ZINC SOLUTIONS

FOR SPECIALTY CROPS

Zn

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 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.

Product & Analysis	Features	Compatibility	Crops	Application Method	Use Rate (per acre)	Density (lbs/gal)	Freezing Pt. (°F)
EDTA Chelated Zinc 9% 9.0 Zn	<ul style="list-style-type: none"> Only option for in-furrow zinc application Fully-chelated solution Contains essential nutrients for quick emergence and rapid zinc deficiency correction 	Designed for use in all liquid fertilizers and suspensions	Vegetables	In-furrow, 2x2	1-2 quarts	10.9	< -4
				Foliar	1-2 pints		
			Tree & bramble fruits; nut trees; other fruits	Soil	1-2 quarts		
				Foliar	1 pint/100 gal water		
Triple Crown™ 12-0-0 + 12.0 Zn	<ul style="list-style-type: none"> Contains 3 different sources of zinc: EDTA, sulfate, and ammonium chloride Provides immediate availability and sustained release Excellent storage characteristics; can be mixed to overwinter 	APP, UAN, ATS, and starters up to 50% ortho	Vegetables	2x2	1-3 quarts	10.4	< -4
				Broadcast	4-6 quarts		
Nulex® Ammoniated Zinc 15% 13-0-0 + 15.0 Zn	<ul style="list-style-type: none"> Up to ten times more effective than dry broadcast zinc A source of nitrogen and zinc Promotes healthy plants and higher yields 	APP, UAN, ATS, and starters up to 30-35% ortho	Vegetables	2x2	0.75-9 pints	10.8	10
Citric Chelated Zinc 10% 2.0 S, 10.0 Zn	<ul style="list-style-type: none"> Safe for foliar application May be used as an additive for liquid fertilizer Splash-and-go tank mix foliar zinc 	Compatible with most pesticides. May be used as an additive with some liquid fertilizers.	Vegetables	2x2	0.5-4 quarts	10.3	32
				Foliar	1-2 quarts		

ALSO AVAILABLE: EDTA Chelated Zinc 6%, Nulex Ammoniated Zinc 10% and 20%.



For more information on these products and other available products, visit AndersonsPlantNutrient.com

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CROP RESPONSE TO ZINC

High	Onions
High	Snap Beans
High	Sweet Corn
Medium	Cabbage
Medium	Lettuce
Medium	Potato
Medium	Radish
Medium	Sweet Potato
Medium	Sugar Beets
Medium	Tomato
Low	Asparagus
Low	Broccoli
Low	Carrot
Low	Cauliflower
Low	Celery
Low	Cucumber
Low	Peas
Low	Peppers
Low	Turnips

The above chart represents crop response when zinc is applied. A high crop response indicates that an application of zinc will have a significant impact on yield.

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

Sweet Corn: white to yellow bands begin at the base of the leaf; midrib and leaf margins remain green

Dry Beans: yellow and possibly bronze coloration of leaf edges and tips

*Always tissue test to ensure correct diagnosis of nutrient deficiency.

ZINC DEFICIENCIES CONTRIBUTE TO:

- Poor root development
- Stunted growth
- Shortened internodes
- Delayed silking and tasseling



Zinc deficient corn
IPNI | Source: S. Srinivasan



Zinc deficient pinto beans
NDSU | Source: D.W. Franzen



For more information on these products
and other available products, visit
AndersonsPlantNutrient.com

