

UltraMate[®] Zn

UltraMate Zn is a sulfonated potassium humate liquid with the additional benefits of zinc. It completely mixes when added directly to liquid fertilizer, micronutrient, or pesticide formulations over a wide range of pH values. UltraMate Zn allows plants to utilize N, K, Zn, and other micronutrients more efficiently, reducing leaching and improving soil structure.



FEATURES & BENEFITS

- **Improves nitrogen availability, reducing volatility while increasing utilization of nutrients it is tank-mixed with**
- **Promotes phosphorus utilization and decreases leaching**
- **Provides zinc to growing plants for a longer period of time**
- **Provides up-front availability of humic and fulvic acids**

FREQUENTLY ASKED QUESTIONS

Q: On what crops can UltraMate Zn liquid humate be used?

A: UltraMate Zn liquid humate can be applied to all crops including row crops, fruits, vegetables, trees, vines, flowers, ornamentals, turf (including lawns, sod farms, commercial properties, athletic fields, golf greens, tees, and fairways), greenhouse plants, and other indoor crops.

Q: What is the analysis of UltraMate Zn?

A: The analysis of UltraMate Zn is 3-0-2 + 1.0 S and 3.7 Zn containing 12% humic acid. The humic acid is a sulfonated potassium humate derived from Leonardite.

Q: When should UltraMate Zn liquid humate be applied?

A: UltraMate Zn is recommended for sidedress application, and may also be used with 2x2 placed starter fertilizer or with weed and feed applications.

Q: What is the role of zinc in UltraMate Zn?

A: Zinc is an essential micronutrient responsible for a variety of functions in the plant, including protein synthesis, seed and grain formation, plant maturity, growth regulation, and the formation of enzyme systems.

Q: What is the role of carbon in UltraMate Zn?

A: Carbon is an essential element that stimulates beneficial microbes in soils. As a liquid humic, this solution improves the efficiency of applied macro- and micronutrients in the plant, and its humic acid can help reduce soil salinity.

Q: How does UltraMate Zn liquid humate differ from other humic acid products?

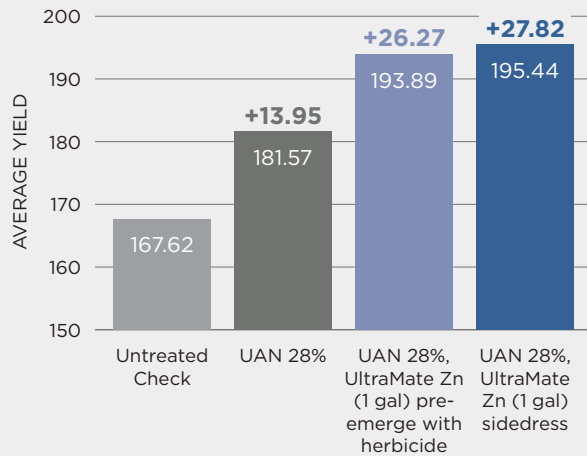
A: UltraMate Zn incorporates the benefits of both high-quality humic acid and zinc. The sulfonation of the humic allows for easy tank mixing, increased activity in low pH soils, and stability in storage when mixed. UltraMate Zn also delivers zinc, which is essential for many critical plant functions.

Q: How does UltraMate Zn help deduce nitrogen loss from volatilization?

A: Volatilization is the loss of nitrogen to the atmosphere as ammonia gas (NH₃). It occurs when urea nitrogen is converted to ammonia by the urease enzyme. UltraMate Zn sequesters the metal nickel, a key component needed by the urease enzyme in the conversion process.

ULTRAMATE® ZN

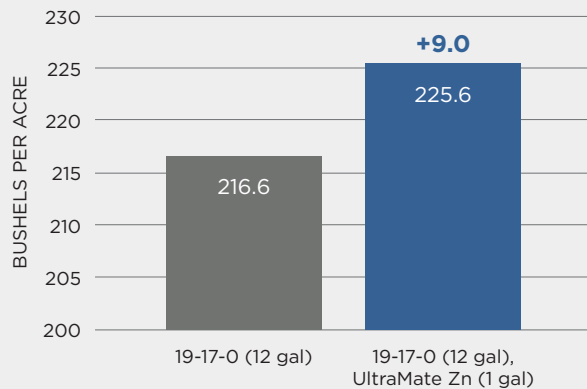
Nebraska | Sidedress | Corn



Research Summary: In 2022 in Nebraska, UltraMATE Zn was applied in combination with UAN 28%. For one treatment, UltraMATE Zn was applied pre-emerge with herbicide. The second treatment included UltraMATE Zn at sidedress. In both cases, the addition of UltraMATE Zn increased nitrogen utilization by the plant, resulting in a 26.27 and 27.82 bushel per acre increase, respectively.

ULTRAMATE® ZN

2x2 | Corn

**GUARANTEED ANALYSIS**

Total Nitrogen (N).....	3.00%
3.00%....Ammoniacal Nitrogen	
Soluble Potash (K ₂ O).....	2.00%
Sulfur (S)	1.00%
1.00%....Water Soluble Sulfur	
Zinc (Zn).....	3.7%
3.7%....Ammoniated Zinc	

Derived from: zinc-ammonia complex, potassium hydroxide, potassium sulfate, potassium humate

NON-PLANT FOOD INGREDIENTS

Active Ingredients	
Humic Acid*	12.0%
Total Other Ingredients.....	88.0%

*Derived from Leonardite

PHYSICAL PROPERTIES

pH.....	9.7
Specific Gravity.....	1.166 @ 68°F
Density.....	9.7 lbs/gallon
Salt Out.....	29°F

APPLICATION

Crop	Application	Use Rate (per acre)
Row Crops	Pre-plant broadcast, 2x2, sidedress, topdress (wheat), weed & feed	1-3 gallons

1 gallon of UltraMATE Zn will provide 1 quart of zinc.

UltraMATE Zn application rates and frequency are dependent on soil and climate conditions. The typical application rates for corn are:

- **2x2 placed starter:** 10-15 gallons of UAN/10-34-0/ATS with 1.0-1.5 gallons UltraMATE Zn/acre
- **Sidedress:** 20-50 gallons of UAN with 1.0-3.0 gallons UltraMATE Zn/acre
- **Weed & Feed application:** UAN with 1.0-2.0 gallons UltraMATE Zn/acre
- **Wheat topdress application:** 1-2 gal/ac added to the UAN solution

**FOR MORE INFORMATION**

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