

KINETIC™ Zinc

Nutrition

Biostimulant

Timing:
Foliar

Nutrient Type:
Micronutrients

Formulation:
Liquid



Superior zinc delivery to stimulate the production of natural growth hormones in the plant

Kinetic™ is the premium line of foliar micronutrients designed to address and overcome specific micronutrient deficiencies in the plant.

- Kinetic Zinc is 100% plant available and crop safe
- Powered by Convey and Cellburst Technology.
- Kinetic Zinc improves fertilizer use by increasing the mobility and uptake of the nutrient in the plant
- CFIA Registered



Powered by CONVEY and
CELLBURST Technology

Role of Zinc

- Aids plant growth hormones and enzyme systems
- Helps in seed formation
- Necessary for protein synthesis and membrane function
- Influences plant hormone proteins, for example auxin development, especially IAA
- Active in chlorophyll synthesis & manufacturing of carbohydrates
- Zinc causes healthy root growth, leading to enhanced grain yield

Deficiency Symptoms

- Leaves are smaller and narrower than normal ("little leaf"), and their tips are often white
- Malformation of foliage and reduced fruit set
- Necrotic spots on cereals and chlorotic white striping on corn
- Shortened internode. The entire plant is often stunted (dwarfism)
- The growth of sprigs is inhibited and young shoots die
- Premature leaf senescence can also occur

Zinc Deficiency in Soybeans



Zinc Deficiency in Wheat



Zinc Deficiency in Wheat



Zinc deficient wheat roots (left), Zinc sufficient wheat roots (right)

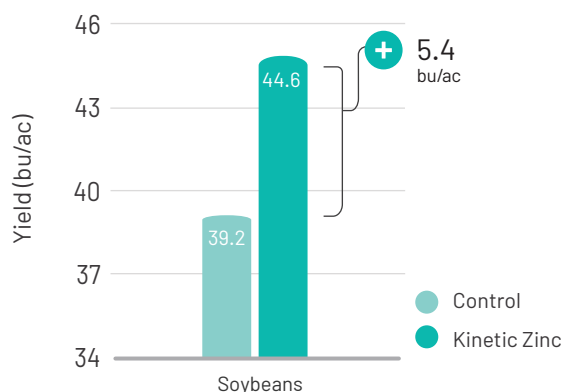
Proven Agronomic Performance

- Summary data collected by Dr. Patrick McMullan demonstrated the benefits of supplemental essential nutrition. The addition of Kinetic Zinc with Roundup enhanced productivity of Soybeans by an average of 5.4 bu/ac.
- Replicated small plot trials on wheat highlight the importance of formulation. Kinetic Zinc had a 67% in Zinc uptake when

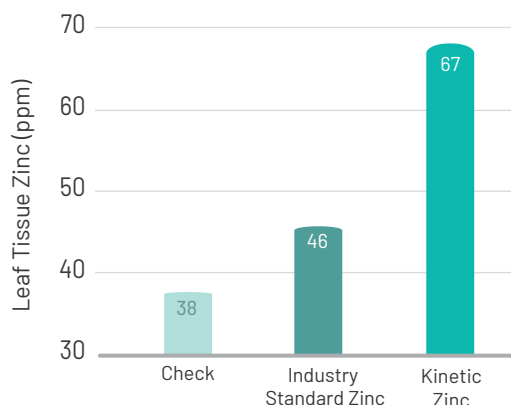
compared to an untreated check. Industry standard had at 45% increase in Zinc up take when compared to the untreated check.

- To review the complete Kinetic Zinc data package, please contact your ATP Technical expert today.

Zinc in Soybeans



Increased Zinc Uptake in Wheat



The addition of Kinetic Zinc with Roundup enhanced productivity of soybeans by an average of 5.4 bu/ac.

Product Recommendations

- Kinetic products can be applied throughout the growing season. For efficiency, Kinetic products can be added with the herbicide and/or fungicide application.
- Use proper water volume (minimum 10 gallons) to ensure uniform coverage and optimum uptake.
- Do not spray in the heat of the day or when plants are under moisture stress. Spray in the late evening or early morning.
- Tank mix compatibility is impacted by water quality which may vary by location, so conduct a jar test prior to combining Kinetic with a crop protection product or visit www.atpag.com for product compatibility information.
- To view the Kinetic Line's SDS and Product Labels please visit www.atpag.com

Product	Analysis	Rate (L/ac)	Timing	Forum
Kinetic Zinc	9.0Zn-3.8S + Convey + Cellburst	0.5-1.0	Foliar	Liquid



At ATP, we believe a proactive, science-based approach to restore the balance between plant and soil health is the single most effective way to deliver the genetic potential of the crop. We challenge the status quo by utilizing agtech to monitor and drive productivity.

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