

KINETIC™ Boron

Nutrition

Biostimulant



Timing:
Foliar



Nutrient Type:
Micronutrients



Formulation:
Liquid



Boron: Essential for cellular strength, pollination and sugar movement.

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

- Kinetic Boron is 100% plant available and crop safe
- Kinetic Boron improves fertilizer use by increasing the mobility and uptake of the nutrient in the plant
- Trace elements added to support sugar movement and amino acid production
- Powered by Convey and Cellburst Technology
- CFIA Registered



Powered by CONVEY and
CELLBURST Technology

Role of Boron

- Maintains cell wall integrity of roots
- Essential for cell division and development
- Facilitates the synthesis of nucleic acids
- Regulates metabolism of carbohydrates
- Aids production of sugar and carbohydrates, and is essential for seed and fruit development
- Essential for elongation of pollen tubes
- Enhances uptake of Ca, Mg, and K, and enables sugar translocation.

Deficiency Symptoms

- Retardation of root and new growth, followed by death of younger leaves
- Rhizobia development in the roots of legumes is inhibited
- Causes breakdown of growing tip tissue
- Poor seed set or fruit set
- At B concentrations 12 ppm or less, terminal buds die and shoot dieback takes place

Boron Deficiency in Soybeans



Boron Deficiency in Wheat



Boron Deficiency (left) vs. Boron Sufficient in Wheat (right)

Boron Deficiency in Canola

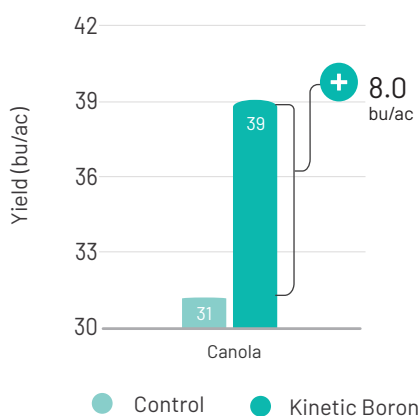


Proven Agronomic Performance

- Data generated across Western Canada from 2012-2013 shows that Kinetic Boron increased overall canola yield by an average 8.0 bu/ac.
- The addition of Kinetic Boron with ReLeaf™ improved consistency in performance and enhanced productivity by an average 5.4 bu/ac in Canola, reiterating the benefits of Chemtrition.

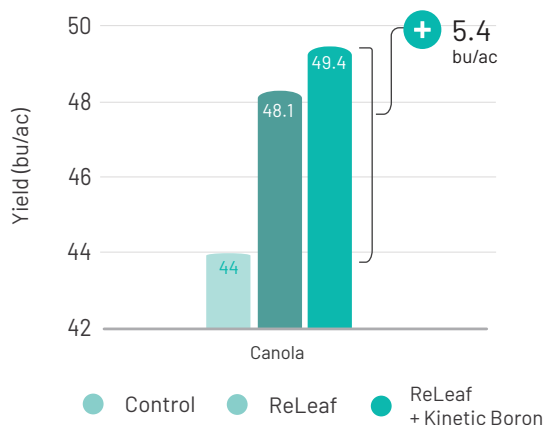
- Kinetic Boron proved to have a direct positive effect on yield, as seen in summary data from field demonstrations in 2012-2013, reporting an average increase of 3.0 bu/ac in Wheat.
- Sufficient boron had a direct positive effect on the crop's yield due to stronger cell walls, better pollination and a healthier carbohydrate metabolism.
- To review the complete Kinetic Boron data package, please contact your ATP Technical expert today.

Boron in Canola



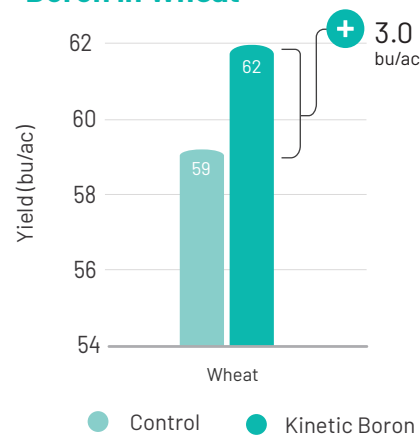
Field Demonstration, Western Canadian Trials (2012-2013)

Boron + ReLeaf in Canola



Replicated strip trial, Saskatchewan (2013). ReLeaf and Kinetic Boron applied at BBCH 14 at a rate of 2.0 L/ac and 0.5 L/ac, respectively.

Boron in Wheat



Field Demonstration, Western Canadian Trials (2012, 2013)



Data generated across Western Canada shows that Kinetic Boron increased overall canola yield by an average of 8.0 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.atpnutrition.ca 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	Form
Kinetic Boron	10B+ Convey + Cellburst + TE	0.5-1.0	Foliar	Liquid

TE = Trace elements



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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Learn More

