



Strengthens and Prevents Lodging

ANALYSIS (3-0-1 WITH 4.5% SULFUR AND MICRONUTRIENTS)

WHAT IS IT?

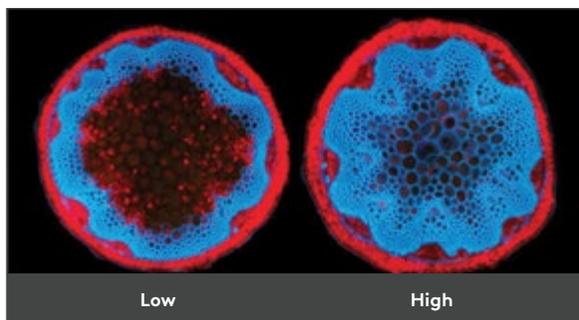
- > Fortis™ is a low salt index liquid fertilizer with high levels of Copper, Manganese and Zinc.
- > The product is formulated with fully water soluble ingredients and OMEX®'s proprietary technology that enhances uptake and translocation, while minimizing tissue damage.

WHEN & WHY USE IT?

- > Fortis™ is recommended on all cereal crops at the flag leaf stage.
- > Crop lodging is caused among others (K deficiency, Mn deficiency, too much rain and wind...) by a weak straw strength.
- > Yield and grain quality losses to lodging could be significant as it hampers grain fill and may lead to premature sprouting.
- > Copper and Manganese are key micronutrients for the process of lignification, which allows for the thickening of the straw.
- > Manganese is a trigger for the shikimate pathway and plant health.
- > Zinc stimulates the use of Phosphorus and enhances metabolism.
- > Boron is an important component for cell wall structure.

WHAT TO EXPECT?

- > Fortis™ improves lignification and straw strength and help prevent lodging.
- > Fortis™ corrects Copper, Manganese, Zinc and Boron deficiencies.
- > Fortis™ improves chlorophyll production and photosynthesis.
- > Given the role of Copper for pollen fertility, Fortis™ contributes to ergot prevention and seed quality.



High lignin-accumulating stem (right) versus low accumulating stem (left) (Dr. H. Wang). Lignin (shown in blue) is a compound that adds strength to plant cell walls.



A beginning of lodging in a barley field near Calgary. The crop may or may not recover depending on the time when it occurs. (Photo: Barbara Duckworth)

Application Guidelines



Apply Fortis™ at 1 L/ac with a minimum of 10 US gal of water (15 US gal is preferred).

Recommended alone. If tank-mixed with fungicides see compatibility charts. Some combination may be physically compatible but may cause bronzing effect on the leaves.

Fortis™ is a Copper containing product and as such should be sprayed with a high water volume, especially if tank-mixed with fungicides that require higher rates of surfactant.

Avoid spraying Fortis™ under hot and dry conditions. Spray preferably late during the day going to the evening.

The product is available in 10 L jugs, 450 L and 1000 L IBC's.

*Fortis™ is a trademark of OMEX Agriculture Inc.

FOILARS



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