



Phosphate

Tech Sheet

THE TECHNOLOGY

Vantage Ag - Phosphate, is an enhanced plant nutrient formulation derived from our proprietary reacted liquid Quantum Ag technology. Our liquid Phosphate is a nano-particle formulation designed to cover and penetrate plant tissue in the orthophosphate form. Our reacted liquid technology allows for nutrients to be highly bio-available and quickly absorbed and metabolized by the plant. The low amount of actual Phosphate allows for excellent crop safety and a more sustainable option.

PHOSPHATE NUTRITION

Phosphate is an essential nutrient both as part of several key plant structure compounds and as a catalyst in the conversion of numerous key biochemical reactions in plants. Phosphorus is a vital component of ATP, the “energy unit” of plants. ATP forms during photosynthesis, has phosphorus in its structure, and processes from beginning of seedling growth through to the formation of grain and maturity. Thus, phosphorus is essential for the general health and vigor of all plants. Some specific growth factors that have been associated with phosphorus are: stimulated root growth, increased straw strength, uniform maturity and increased Nitrogen in legumes. Phosphate can be very limited in availability in cool soils, less than 20 degrees celcius. Orthophosphate forms are more readily available in cool soils, compared to Monoammonium Phosphate (MAP) and Ammonium Polyphosphate (APP).

APPLICATION

This product is designed to be used foliarly when Phosphate maybe deficient. This product can be mixed with herbicides and fungicides, for in furrow application double the rates. Consult label for specific application instructions and always conduct a jar test. Rates on crops on the prairies are 100mL to 350mL per acre. For in furrow, increase rates by 25%.

The results pertain to physical compatibility and cannot predict changes in crop protection, product efficacy or crop tolerance. Test all crop protection products applied at high end of recommended rates.

PHYSICAL CHARACTERISTICS

DO NOT ALLOW PRODUCT TO FREEZE - product will become inactive.

*Product registration pending.

Analysis	22% Phosphate
Ph	< 1
Appearance	Bright Yellow Liquid
TDG	Class - Corrosive

**QUANTUM
MATRIX™**
TECHNOLOGY

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