

PureGrade Liquid Plant Food



GoldStart® High Ortho/Low Polyphosphate Liquid vs. 100% Orthophosphate Clear Liquid Fertilizers

GoldStart 80/20 Ortho/Polyphosphate

Excellent performance as a starter. May have advantages as a starter and foliar fertilizer compared to ortho only.

Significantly lower in cost

80% of the phosphate is in the ortho form and ready to be absorbed by plant roots at the time of application for fast, early growth. The remaining poly breaks down to orthophosphate with time and increasing temperature becoming available for extended feeding.

Because of the 20% polyphosphate content, GoldStart can sequester economically priced micronutrients and hold them in solution.

Foliar Fertilization: Research by Barel and Black suggests there are foliar advantages by having polyphosphate in the foliar fertilizer. It reduces the potential of foliage burn thereby making it possible to increase the application rate. While polyphosphate doesn't enter the leaf in large amounts like ortho, poly slowly breaks down to ortho on the leaf's surface providing for extended feeding.

GoldStart 80/20 fertilizers have the right balance between ortho-only phosphate fertilizers and the conventional high polyphosphate products for both starter and foliar applications.

100% Orthophosphate Fertilizers (clear)

Equal or near equal performance as a starter.

Cost of 100% orthophosphate raw materials requires higher selling price.

No extended feeding from polyphosphates.

100% orthophosphate fertilizers require higher cost, fully chelated EDTA micronutrients in order to hold them in solution. This adds significantly to the cost of an already costly product.

Higher application rates of ortho-only phosphate increases the potential of leaf burn. No extended feeding because of the lack of polyphosphate.

Contains only ortho as its phosphate source.

¹Barel, D and Black, C. A. 1979. Foliar Application of P. I. Screening of Various Inorganic and Organic P Compounds. Agronomy Journal 71:15-21 and II. Yield Responses of Corn and Soybeans Sprayed with Various Condensed Phosphates and P-N Compounds in Greenhouse and Field Experiments. Agronomy Journal 71:21-24.