



PureGrade Liquid Plant Food

GoldStart vs 40/60 Ortho/Poly Blends Made by Others

	GoldStart 80/20 ortho/poly 6-24-6, 9-18-9, etc.	40/60 ortho/poly blends made by others
Ortho Content	80% of phosphate is in the plant available ortho form. This means that there is twice as much orthophosphate immediately available compared to the 40/60 blend.	Only 40% of the phosphorus is immediately available as ortho. The availability of remaining 60% is dependent on soil temperature.
Viscosity	Fertilizer blends high in orthophosphate are thinner (lower viscosity) and pump more easily through the small lines to each row unit when air temperatures are lower.	Blends higher in polyphosphates tend to be thicker, or, more viscous. This matters during cold nights and warm days. Extra adjustments will be needed to keep application rates uniform.
Salt Index	High quality, high ortho fertilizers made from potassium phosphate tend to have a lower salt index and added safety to the seed.	Products with increased poly tend to be higher in salt index because the poly carries more impurities.
Stability	Products with higher relative amounts of ortho P store better or have a longer “shelf life.”	Higher poly fertilizers are expected to have more settlings in the bottom of the tank.
Best use	Starter fertilizers that are higher in orthophosphates are expected to work better in soils with higher clay content, high extractable aluminum (lower pH) and high magnesium levels. These soil conditions slow the rate of hydrolysis of polyphosphates, thus increasing the time required to convert the poly to ortho, the form of phosphate that plants use.	