



Welcome to Ground Work

Dear J.P.,

Several of you have asked AgriEnergy what we will have in 2011 to replace Calcium O. We can now confirm that we will be selling Albion's chelated calcium for use as a foliar, and Diamond K's ultra fine gypsum for soil applications.

A few words about the Diamond K gypsum. The bag says solution grade, but the product does not dissolve in water. Use of the gypsum will be limited to applications where agitation can be constant and fairly vigorous. AgriEnergy's dealer in Texas has used this product for years with excellent results. In Texas they also use dry injection equipment to meter the product into the irrigation stream both for center pivot and drip systems. These dry injection units are available through Diamond K and come in several sizes.

The Albion Metalosate Calcium and Metalosate Calcium Boron are products we have high expectations for. They are amino acid chelates that can be used in organics to treat a calcium disease or disorder. We have high expectations because they are absorbed into plant tissues much more readily than calcium carbonate, calcium nitrate, or calcium chloride.

When we think of chelated nutrients we think of something attached to our fertilizer that keeps it from getting tied up by the soil. Amino acid chelates are similar in that they bind to the nutrient we want to get absorbed. Yet they are also quite different in that they are far smaller than other chelates and are therefore small enough to get absorbed efficiently by pores in the plant's leaves.

More importantly, the chelate results in a neutral charge. Without a plus or minus charge the nutrient can flow into the leaves unrestricted. Leaf pores have a negative charge. When we apply unchelated calcium as a foliar these pores quickly fill up and bond with the positive calcium ions. These ions then move slowly into the leaves and may not fill the plant's need for calcium quickly enough. The amino acid chelate with no charge moves into the plant very quickly and also has the unique ability to allow for some calcium movement within the plant, which is something unchelated calcium does not do.

The organic Albion Metalosate Calcium Boron is 13% calcium and 5% boron as a dry soluble powder. If it seems to you a low amount of nutrients applied for the dollar, remember it is *results* we are after. The Metalosate Calcium Boron is a product we have firsthand experience with on watermelons sprayed by plane. It not only performed well when applied with SP-1 and fish, but was convenient for the salesman and for the applicator to handle.

As exciting as having a better product than Calcium O is the fact that these products are the best choice for foliar on any farm, organic or conventional. With the inherent weaknesses of gmo corn and beans, conventional farmers are becoming very aware of the value of foliar applications. The Albion products fit very well. Besides the calcium products we will also have available amino acid chelates of magnesium, zinc, manganese, copper and iron, as well as their combinations.

Give some thought as to where you might have a fit for these products and try some!