

The ALPINE® Advance

SPRING 2021 | IN THIS ISSUE

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ALPINE K-Tech® Technology



The ALPINE® difference

MAXIMIZING FERTILIZER EFFICIENCY

ALPINE® Agronomy AgriBite

Steven McQueen CCA-ON, 4R NMS
Agronomy Manager, ALPINE

ALPINE K-Tech® Supported Agronomy

“It’s All About the Seed”

As we create our crop plans year over year, we are always searching for new opportunities to improve and enhance our past years’ yields. We start by selecting our seed varieties, providing us with the traits that will enable us to grow the best

genetic yield potential for our farms. We then consider our equipment needs to improve our seedbed preparation along with our planter requirements. Uniform seed and fertilizer placement with improved seed to soil contact enhance our operational considerations. It is then time to consider the fertilizer requirements of the seed.

“Thinking Like A Seed”

From the time we place the seed into the ground, the journey truly begins. As the

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ALPINE INSIGHT

ALPINE’S Commitment to Agronomic Education Strengthens

Murray Van Zeggelaar
Vice President – ALPINE

For over 45 years, ALPINE has been committed to providing the best agronomic advice, along with the highest quality liquid fertilizers on the market. Our on-farm plot program has resulted in hundreds of trials showing the benefits of our products while demonstrating the sustainability of our fertilizers. Our sales team is the very best in the field, with 9 Certified Crop Advisors (CCA) in Ontario alone.

For many years, ALPINE was solely focused on in-furrow fertilizers, helping growers maximize the yield potential of their crops through efficient phosphorus use. Today, in-furrow liquid starters remain our primary focus, particularly in the application of 4R nutrient stewardship practices being adopted by many farmers over the past few years. Recently, ALPINE has also begun to address the growing issue of potash deficiencies with our new K-Tech® potassium technology. This revolutionary source of potash is already showing significant benefits on a wide range of crops that are having

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NEW PRODUCT PROFILE

ALPINE® Agronomy AgriBite

Steven McQueen CCA-ON, 4R NMS
Agronomy Manager, ALPINE

ALPINE K19-S®, Maximizing Your Nitrogen Investment

As seed technology continues to raise the level of yield opportunities, we are constantly managing the nitrogen requirements to match these expectations. As we pursue the balance and efficiency of our nitrogen applications, we must take several factors into consideration. Some important factors such as rates, timing and sources, are becoming increasingly important as we look to environmental and economic balances. With cropping decisions, combining with best management practices, we need to match fertilizer applications and blends to the plants' requirements.



ALPINE K19-S® improved yield and quality

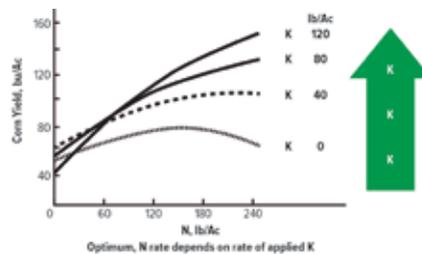
ALPINE K19-S®, Maximizing Your Nitrogen Investment

ALPINE K19-S brand liquid fertilizer is designed to be blended with various other fertilizers to provide important nutrients needed to grow high-yielding crops. It can be mixed with UAN solutions and liquid urea solutions to provide two very critical elements - potassium and sulfur; typically missing from these base fertilizer products. ALPINE K19-S can be blended with UAN solutions to create a streamer, strip-till/ sidedress fertilizer that provides extra potassium, and sulfur at a time when uptake of these nutrients is rapidly increasing. This new and improved potassium fertilizer technology, features increased foliar and root absorption, low salt index and increased energy production, which ultimately leads to increased crop yields and productivity.

POTASSIUM: Potassium teams with nitrogen and sulfur to produce protein essential for proper plant growth. A high testing soil potassium level does not mean adequate potassium will be available to fulfill the plants need. The addition of potassium to your fertilizer program provides the following:

- helps increase drought resistance
- helps develop stronger stalks and stems
- maintains a healthy plant metabolism
- assists in photosynthesis
- helps translocation within the plant
- increases protein and starch levels within the plant
- aids in fighting diseases

SULFUR: Sulfur is an essential nutrient for corn production, often ranked behind only nitrogen, phosphate and potassium. Sulfur is needed to metabolize nitrogen making it available to the plant and is closely related to the amounts of nitrogen available to the crop. Sulfur activates the enzyme nitrate reductase, which converts nitrates to amino acids within the corn plants and is a key nutrient in protein development.



Source: Better Crops/Vol 82 (1998 No. 3)

ALPINE K19-S® 2020 Results

The field trails in 2020 showed an increase, not only in yield, but in feed quality as well. By improving the nitrogen use efficiency, the plants can stay greener longer and provide a stronger finish to the crop. Increased protein and starch content carries a lot of value for your livestock as well.

By adding ALPINE K19-S to your nitrogen application, you again raise your level of management by applying fertilizer in a blended form, creating synergies between the nutrients and a balanced supply to meet your crops demands.

AGRONOMIC EDUCATION - CONTINUED FROM PAGE 1

difficulty getting enough potassium for maximum yields.

Today, our commitment to agronomic education has been strengthened with the addition of an Agronomy Manager who will focus on helping our farmers maximize their fertilizer efficiency and maximize their crop yields. I am pleased to introduce Steve McQueen who will lead our research and plot program, as well as our agronomic education platform. Aside from farming most of his life in Oxford County, Steve has been committed to agriculture through a number of different positions he has held in the industry, most recently with a company that focuses on optimizing the growth and yields of plants through bio stimulant technology. We are very pleased that Steve has joined our team and will be a great asset in our commitment to agronomic education.



Steve McQueen

Let's Grow the Best Together

ALPINE®/Precision Planting® Equipment Rebate Program

Ken Brett CCA-ON, 4R NMS
Regional Sales Manager

ALPINE is very pleased to have partnered with Precision Planting to offer growers an equipment rebate program this season. This match brings ALPINE, Canada's premium source of liquid fertilizers, together with Precision Planting, who are known for their innovative planting equipment upgrades that are re-inventing how we think about crop nutrient application and seed placement.

By choosing ALPINE's industry leading K-Tech® products such as ALPINE G241-S® and ALPINE HKW6® seed-placed starters as well as ALPINE's new product for sidedress applications, ALPINE K19S®, growers can qualify for equipment rebates of up to \$450 per row of planter. K-Tech products bring the best potassium source for soil applications with their very high solubility rating plus the fact they're a preferred food-source for soil mycorrhizae which work with plant roots to enhance nutrient uptake.

A wide range of Precision Planting products are eligible for this program, including 20/20, FurrowJet, SmartFirmer, Conceal, vApplyHD and FlowSense. All of these products allow growers to apply nutrients in a more accurate manner and provide better placement of crop nutrients. ALPINE has collaborated with Precision Planting the past few summers in their research program studying the applications of ALPINE products through these new methods of placement and the results have been encouraging. By re-allocating crop nutrients we're able to gain efficiencies in the application of them and also on how the crops utilize them, all within a 4R nutrient management program.

For more information regarding the ALPINE/Precision Planting Equipment Rebate Program, contact your Precision Planting dealer or your local ALPINE representative. You can find your ALPINE rep through our website at alpinepfl.com.

Precision
Planting



MAXIMIZING FERTILIZER EFFICIENCY – CONTINUED FROM PAGE 1

seed takes in the surrounding moisture and the fertilizer solutes in it, the stored life inside the seed begins to come alive. The internal nutrients that were stored from its' past growth environment, and the memory of the stresses that it endured are preparing to now germinate in your fields. This germination process requires the healthy and vibrant native microbial life, as well as an ample supply of key micronutrients that surround it to support an early and vigorous start. From germination forward, the seed will now require your best management practices to provide timely and adequate fertility and crop protection to enhance the responses your plant initiates.

“ALPINE K-Tech Fertilizer for The Seed”

ALPINE Starter Fertilizers are designed to provide a safe and available nutrient package required by the seed. Having a balance of N,P, and K increases the efficiency as each nutrient enhances the other. Having ALPINE K-Tech included, allows the cells

within the seed to take advantage of the acetate to increase seed vigor and root exudates, supporting microbial activity around the Rhizosphere. This stronger start leads to earlier emergence and a more uniform plant establishment, thus complimenting your operational management decisions.

“ALPINE K-Tech Technology Supporting the Seed”

ALPINE K-Tech has been designed to be the most efficient and effective plant source of potassium for sustainable plant growth. When soil applied, K-Tech supports quicker germination, improved root development, and increased abiotic stress tolerance, enhancing uniform plant establishment. As a foliar, Alpine K-Tech with its' natural plant metabolite, rapidly increases absorption of potassium while supporting the production of plant compounds such as fatty acids, phytochemicals, and cellular compounds. Ultimately this mitigates the damaging effects of stress, leading to increased plant vigor and yield.

“ALPINE K-Tech Positioning”

ALPINE K24® is our K-Tech Technology, designed as the safest and most efficient plant K source.

ALPINE G241S® is a high ortho phosphorous fertilizer starter that will enhance the crop potential through uniform seed germination and emergence. The quality blend of N, P, K & S includes the ALPINE K-Tech technology to enhance early germination while providing a food source for the microbials.

ALPINE F18 MAX® supplements your herbicide program with a strong micronutrient package, enabling crops to metabolize and rebound quickly from the application.

ALPINE K20-S® compliments your fungicide program, elevating the balanced nutrients required for stress mediation during pollination and seed fill.

ALPINE K19-S® is a designed potassium and sulfur product to escalate NUE when blended with your UAN side band, side dress, or streamer applications.

Strip-Till Corn Needs ALPINE® In-Furrow Starter

Ken Brett CCA-ON, 4R NMS
Regional Sales Manager

As Ontario's corn producers continue to push for higher yields while at the same time minimizing environmental impacts, there has been a large increase in the acreage that is strip-tilled. Good conditions in most of Ontario in the fall of 2020 kept the momentum growing with this practice. Strip-tilling essentially only tills about 1/3 of the ground surface, leaving a worked band that planting equipment places the seed in. A large part of the success of strip-tillage is due to advances in GPS technology over the last several years that allow the different pieces of equipment to stay exactly on the same rows.

From a soil conservation perspective, by only tilling 1/3 of the area, it leaves the other 2/3 untouched, usually in wheat or soybean stubble or a cover crop. This leaves soil biology and residue cover undisturbed as well as reducing soil exposure to wind and water erosion.

On the crop nutrition front, strip-tillage brings many benefits toward a 4R management program. It allows the re-allocation of nutrients that were normally broadcast and concentrates them in a band below the zone the seed germinates in. This brings the advantage of moving away from broadcasting large amounts of these nutrients and leaving them exposed to runoff and decreased concentrations in the root uptake zone.

Despite these advantages of concentrating nutrients below the root zone, ALPINE's research has proven that there is still a need for a high-quality, seed-placed liquid starter in a strip-till program. ALPINE's in-furrow products are designed to provide the first 13 lbs. of Phosphorus to young corn plants and is readily available in a safe form for feeding by the first roots



Strip-tillage allows nutrients to be applied in a band below the seed germination zone

to emerge from a seedling. In a strip-till system this hastens the growth of these initial roots enabling them to reach the band of nutrients that were strip-till applied in a faster manner. It must also be remembered that the quest for earlier planting dates often means planting into cooler soils with very low phosphorus and sulphur availability, which makes ALPINE G241-S® the chosen in-furrow starter for this application.

Over the past 3 seasons, ALPINE has had research plots growing corn under strip-till management systems, all with Phosphorus and Potassium applied through the strip-tillage equipment the previous fall. These trials from multiple farms found the yield response to seed-placed ALPINE G241-S was consistent with what we've found in situations compared to having no in-furrow starter fertilizer applied compared to ALPINE G241-S.

Concluding, regardless of the balance of a corn fertility program, the need for seed-placed Phosphorus to get the

plants off to a great start is imperative, regardless of the tillage system on each farm. Young seedlings require available Phosphorus and often it can't be supplied from cool springtime soils. Strip-tillage brings many benefits to crop production from the aspects of soil and nutrient management, however a seed-placed starter fertilizer like ALPINE G241-S will continue to bring yield gains similar to when used in conventional cropping systems.



Strip-tilling only tills about 1/3 of the ground surface

For more information contact 1-844-655 PHOS(7467)



the starter fertilizer company®

www.alpinepfl.com


Agriculture
more than ever