



Place for advanced technology for profitable farming....

## **RAM-PHITE 0-25-18 - AN ENERGY ELEMENT** **(Complete Solution For P needs & Fungus Control)**

### **What is Ram-Phite?**

Ram-Phite 0-25-18, is a new source of phosphorous neutralized to pH 7.1 that can make a significant yield and quality difference in turf, citrus, ornamentals and row crops. Effective at much lower rates than traditional phosphate sources, Ram-Phite plays a critical role in plant growth and metabolism.

Stress resistance, vigor, yields and quality are all affected by phosphorous availability. Ram-Phite moves quickly and systematically throughout the plant, getting phosphorous into areas where it's needed the most during critical stress periods that occur in a plant's natural life cycle, such as:

- ✓ Root formation,
- ✓ Seedling growth
- ✓ Tillering
- ✓ Bud formation
- ✓ Blossoming

### **What are the Benefits of Ram-Phite?**

- ✓ Highly systemic- A foliar application of Ram-Phite moves quickly throughout the plant
- ✓ Phosphorous on demand.- A foliar application gives an immediate surge of phosphorous to areas in the plant that need it the most.
- ✓ Reduces impact of phosphorous on the environment - Rates are substantially less than traditional phosphates.
- ✓ Develops aggressive root systems - A foliar application has a pronounced effect on building strong, aggressive root systems.
- ✓ Improves plant vigor - Better root systems produce greater growth throughout the year.
- ✓ Increase number of blooms, fruit set and yields- Ram-Phite can increase yields up to 25% or more on many crops.
- ✓ Fights environmental stress such as cold and wet weather- Also combats internal stress due to blossoming, pollination, fruit set and development.
- ✓ Reduces transplant shock - Ram-Phite at transplant helps the root system to re-establish. Fruit set and development

## **How does Ram-Phite works?**

Phosphorous is known as the "energy element". It plays a critical role in many important functions in plant growth, reproduction and metabolism.

Ram-Phite is based upon phosphorous acid, unlike the phosphoric acid of the traditional fertilizers.

The phosphorous in Ram-Phite is in the form of "PO3" rather than "PO4", which is found in traditional fertilizers. It is theorized it takes less energy by the plant to utilize PO3 than PO4. Therefore, Ram-Phite phosphorous is considered to be much more active, efficient and effective.

## **Provides Phosphorous During Critical Periods**

At critical times during a plant's life cycle, phosphorous demand by the plant may exceed the amount the root can supply. That's why it's so important your crop, whether turf, citrus or ornamentals, gets plenty of phosphorous during critical bud and root initiation, growth and reproduction stages.

Because Ram-Phite is highly systemic and mobile within the plant, it gives an immediate surge of phosphorous to areas that need it the most.

## **Control Phytophthora, Fusarium, Pythium like fungus:**

The scientific name "Phytophthora" (pronounced "fy-tof-thor-a" - derived from Greek "phyton" meaning "plant" and "phthora" meaning "destruction"). *Phytophthora* is the fungi that cause some of the most widespread and serious root rot and foliar blight diseases on plants. There are so many crop plants from vegetables (e.g. late blight of potato) to trees (e.g. sudden oak death of Oak).

Our laboratory and greenhouse experimentation resulted clearly indicated that the inhibitory reaction on phytophthora spores. It was evident in mycelia in terms of growth as indicated in Figure 3. Research into phosphite and its application is continuing. Among the areas requiring is the refinement of application rates in conjunction with phosphorus fertilizer requirements of crop plants, time and frequencies of application for different soil type. From this investigation, it appears that there could be substantial benefit of controlling phytophthora fungus by using the potassium phosphite.

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