

45 Karat

10-0-0

45 Karat is a new, patent-pending, amino acid-phosphite complex.

PRODUCT DESCRIPTION/BENEFITS

Foliar-Pak 45 Karat is a 45% phosphite product completely complexed with amino acids. By leveraging the strengths of amino acids, we created a molecule that is more water soluble than any of the current phosphites on the market, allowing for a highly concentrated, low-use rate product.

- An increase in solubility helps it move into the plant more easily (either through the foliage or through the roots).
- The product has a lower soluble salt content than other phosphites on the market. Creating a low-molecular weight complex with amino acids means an efficient molecule that's not weighed down by an excessive amount of potassium, ammonium, or urea.
- The total amino acid content is approximately 40.5% by weight.
- The amino acids used in the formulation are quickly metabolized and converted into valuable defense structures. They convert to anti-oxidants, compounds sequestering cell-damaging oxygen-free radicals, stress messaging molecules, membrane stabilizing molecules, and they improve DNA replication. In essence they work in synergy with phosphites to enhance the systemic acquired resistance (SAR) response in plants.
- The amino acid structures utilized are rapidly metabolized into key osmolyte molecules (choline and glycine betaine), ensuring the vacuoles remain full in plant cells. This ensures optimal turgor pressure on cell walls, which in turn maximizes turf viability.
- In addition to helping maintain turgor pressure, the amino acids combine with phosphate to form phospholipid membranes in plant cell walls. This helps the plant build stronger cells more rapidly.

GUARANTEED ANALYSIS

Total Nitrogen (N) 10.0%
 10.0% Water Soluble Nitrogen
 Derived from: L-argininium phosphite

AMINOPRECISE™

AminoPrecise is a formulation technology used to create Foliar-Pak's new amino-acid products. Using specific amino acids in chemical reactions with each individual nutrient maximizes the protection, solubility, entry into the plant, and movement through the plant's vascular system for each different nutrient-amino-acid compound. AminoPrecise products pair nicely with the Soil Solver® program when specific nutrients are found to be deficient in the soil solution.

PRODUCT INFORMATION:

Weight per Gallon: 11.2 lbs (5.1 kg)
 pH: 4.0

foliar

soil

GENERAL USE GUIDE

This product is tank mix compatible with most fertilizers and pesticides. However, due to variability in water sources and pesticide formulations a compatibility test is recommended.

**Golf Course Greens,
Tees, Fairways
Sports Turf
Lawns**

Apply 1.5 to 3.0 fl oz per 1000 sq ft in enough water to provide sufficient foliar coverage. Repeat every 7 to 21 days or as needed.

Ornamentals

Use 64.0 to 128.0 fl oz per 100 gallons of water.
Bedding Plants and Hanging Baskets:
 Drench 1 gal of finished solution per 20 sq ft of planted area (do not treat the general bed space). Treat each annual plant as if it covers 1 sq ft. For optimum results, fertilize every 2 weeks.
Shrubs and Trees:
 Drench 1 gal of finished solution per 1" diameter of tree or shrub. In areas where turf is present, inject the solution into the soil.

***NOTICE:** ENP Investments LLC warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. ENP Investments LLC will not be responsible for incidental or consequential damage resulting from the use of this product contrary to instructions or under abnormal conditions or under conditions not reasonably foreseeable to ENP Investments LLC.*

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