

## Product Specification

### **AMINOFERT-CALCIUM**

(CALCIUM BORON AMINO ACID CHELATE-CA 12%)

**AC 001**

‘Aminofert-Calcium’ Calcium Amino Acid Chelated Powder is prepared for foliar application on plants to prevent or correct nutrient deficiency that may limit crop growth and yield. It is non-toxic to plants when applied. For best results, apply Aminofert-Calcium soluble powder as per recommendation based on plant tissue or soil analysis. It is approved for organic production.

Aminofert-Calcium (Calcium Amino Acid Chelated Powder) contains 12% as calcium and 30% amino acids (as protein hydrolysed).

Aminofert-Calcium (Calcium Amino Acid Chelated Powder) is off white color free flowing powder, soluble in water and clear solution.

#### **DEFICIENCY SYMPTOMS:**

- As calcium is not freely mobile within plant, apical portions first shows deficiency symptoms which is noticed as yellowing of leaves, from edges.
- Calcium deficiency causes poor root development.
- New leaves show curling at edges.
- Die back of young twigs, and stunted growth.

#### **STANDARD SPECIFICATION:**

##### PHYSICAL PARAMETERS

S.L. No.	PRODUCT PARAMETERS	SPECIFICATION
1.	Appearance	Off white to creamish color free flowing powder.
2.	Solubility (2% soln.)	Completely soluble in water.

##### CHEMICAL PARAMETERS

S.L. No.	PRODUCT PARAMETERS	SPECIFICATION
1.	pH (2% soln. at 25°C)	2.5 - 4.0
2.	Calcium Content (Ca)	NLT-12.0%
3.	Total Nitrogen Content	NLT-5.0%
4.	Amino acid Contents	NLT-30.0%
5.	Loss On Drying (at 105°C)	NMT-12.0%

#### **BENEFITS:**

- Calcium works for root development during early growth stage of plant.
- Calcium is involved in formation of seeds and grains.
- Calcium is essential for apical growth of plant.
- Calcium is needed for transportation of other minerals within plant.
- Calcium is a part of cell wall, and hence related to cell division, cell elongation process.



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#### **DIRECTIONS:**

Apply Aminofert-Calcium by a spray method with an adequate amount of water that will provide complete coverage of the plants. Use of a non-ionic wetting agent may improve spray coverage of certain hard to wet plants.

Aminofert-Calcium soluble powder can be included in a regular spray on crops compatible with other spray material.

The rate of application will depend on the crops, stage of growth, and severity of deficiency. The maximum recommended rates are for mature, full-sized plants; reduce the rates proportionately when spraying smaller plants.

Aminofert-Calcium soluble powder may be used on legumes, grain crops, root crops, cucurbits, cole crops, leafy vegetables, woody and herbaceous ornamentals, deciduous fruits, tropical and subtropical fruits, and many other crops.

#### **DOSAGE:**

##### **Field Crops & Vegetables**

Apply Aminofert-Calcium 200 to 400 gm per acre during periods of rapid growth or nutritional stress. The application may be repeated twice or more times through the growth season.

##### **Tree Crops**

Make an application of Aminofert-Calcium 400 to 800 gm per acre after the beginning of active growth. The application may be repeated at 2 to 4 weeks intervals through the growth season. Mid and late-season sprays directed to cover the fruit may help to reduce the effect of calcium related disorders. For post-harvest fruit treatment, dilute at a rate of 200 to 400 gm per 100 ltrs of water.

##### **Grapes & Berries**

Make an application of Aminofert-Calcium 200 to 400 gm per acre after active growth begins. The application may be repeated at intervals of one week or more through the vegetative growth period.

#### **INSTRUCTIONS:**

Initially Soluble Powders will require special mixing attention. Like Soluble Powders have a tendency to clump when introduced to liquids. Because of this, take every step possible within the requirements to make these materials as user-friendly as possible.

Care should be taken to ensure that the materials are fully mixed and disposed throughout the spray tank. One way to assure proper dispersion is to place the required amount of powder into a bucket of water. After fully mixing, the product be added to the spray tank. You can then mix the next spray tank worth of powder in a bucket and let it hydrate while spraying the first load. This makes the mixing much easier.

Other methods of dispersal:

- Use an inductor system.
- Wash the product through the anti-splash screen on the top of the spray tank.

**STD. Packing** : 25 Kg Paper Bag.

**Best Before** : 36 Months.

**Storage** : Store the material below 25°C, protect from direct sunlight.