

FOLIAREL OK

Potassium Borate

Goodbye Boron Deficiency



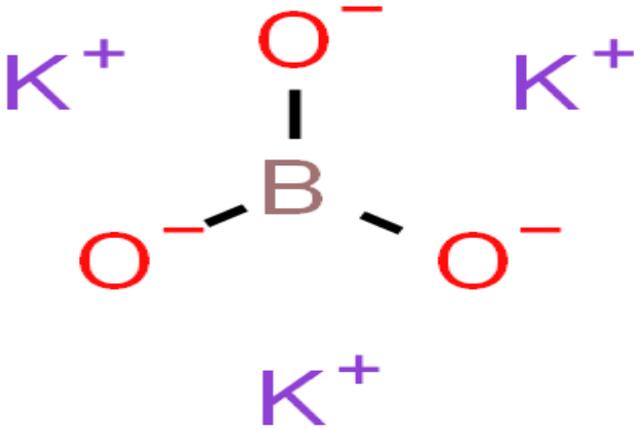
Introduction :-

FOLIAREL OK is a water soluble powder. It is a foliar fertilizer composed of boron and potassium in the form of potassium borate. It is completely free of sodium, which treats the lack of boron on plants without any damage to the crop.

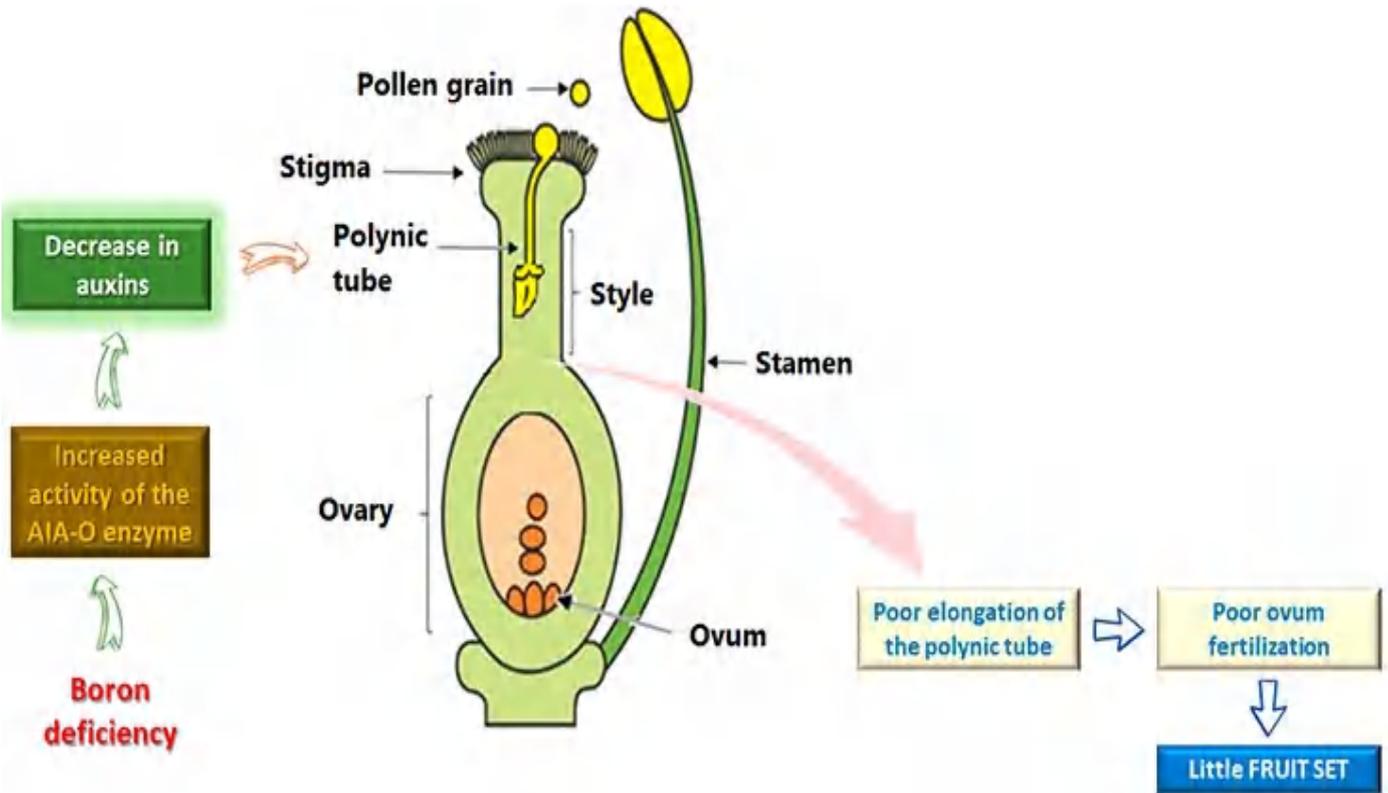
Features of FOLIAREL OK :-

- **A water-soluble source of boron bound to potassium in the form of potassium borate.**
- **The dual presence of these elements, boron and potassium, improves the absorption process, and works to correct the nutritional deficiency caused by the lack of these elements in the soil.**
- **A completely chlorine and sodium free source.**
- **Its exclusive and patented formula is rich in boron and potassium, which promote greater transport of sugars to the fruits and regulate transpiration processes in the plant.**
- **In addition, its use leads to an increase in the activity of cell division and the formation of plant cell walls, which may contribute to increasing the resistance of plants to pests and diseases.**
- **The presence of potassium improves the absorption of boron and its utilization in the plant as a safe and effective fertilizer.**
- **It is characterized by being free from sodium and nitrogen, thus it does not affect the quality of crops that are sensitive to either of these two elements, such as sugar cane.**
- **It can be used in solutions for spraying fertilizers and pesticides and can be used through the soil (before germination or before the emergence of the plant) or by spraying on the vegetation in protected crops, grapes, olives and other horticultural crops.**
- **It is used with all kinds of sprays.**
- **It works to increase the tolerance of fruits for transportation, storage, injuries and stress conditions.**
- **Foliarel Ok is essential in cell division, pollination of flowers, fruit development, nitrogen utilization and protein production.**
- **It reduces the fall of immature fruits, the appearance of distortions, cracks, or irregular coloring of the fruits.**
- **It increases the percentage of sugar in the fruit and makes it more resistant to cold, insect infestations and storage.**

Potassium Borate



The effect of boron deficiency on the fruit-set process



The importance of boron element to plants:

Boron facilitates the transport of sugars in plants through the cell membrane and is essential for cell wall formation, phloem formation, cell division, and regulation of plant hormone activity.

Its deficiency leads to a decrease in the formation of cytokinin and an increase in the accumulation of oxygen in large quantities that may lead to the death of plant tissues.

Boron is necessary for the production and quality of pollen grains, and the lack of boron leads to the accumulation of nitrates in the plant and the lack of formation of proteins due to the low rate of nitrate reduction and the formation of amino acids

Boron is found in the ground solution in a dissolved form with very low concentrations of boric acid or in the form of borates. The plant absorbs boron in the form of the Bo_3 anion. Alkaline and calcareous soils that contain calcium carbonate are poor in their boron content, as boron is available in a pH of less than 7 in the soil and decreases with increasing The pH until the deficiency becomes severe at 7.5 - 8.5

Symptoms of boron deficiency:

- **Boron is an immobile element inside the plant, so the symptoms of its deficiency appear on the new leaves and the upper parts of the plant**
- **The appearance of cork veins on the lower surface of citrus leaves.**
- **The death of the growing tops and the appearance of the hollow heart in sugar beet.**
- **The appearance of cork spots in apples and pears.**
- **Disfigure the fruits with strawberries and grapes.**
- **The appearance of cracks and corky scabs on the fruits of cucumber.**
- **The appearance of lichenification on the petioles of cotton paper.**
- **Cauliflower heads deformed and blackened.**
- **Distort the almonds with cotton and distort the sunflowers and artichoke inflorescences.**
- **The small size of leaves and the appearance of yellow lines in bananas.**
- **New potato leaves are deformed and brown scars appear inside the tubers.**
- **Cavity of some stems of cruciferous plants.**
- **Cracked trunks are internally eroded, which exposes the plant to disease such as sugar blight and fruit scaling in cucumbers**
- **Decreased vitality and pollen germination, which leads to a shortage of fruit set and irregularly shaped fruits**
- **Abnormal growth and delay in the upper parts of the plant.**

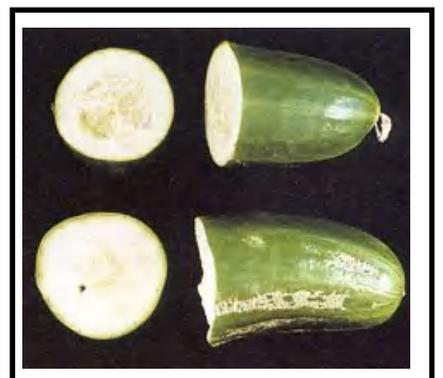
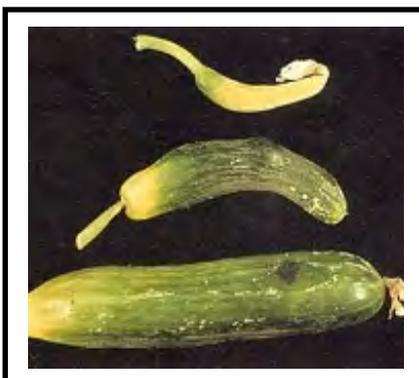
Symptoms of boron deficiency in different crops



Citrus



Tomato



Cucumber

Symptoms of boron deficiency in different crops



Grapes



Potato



Pepper



Strawberry



Wheat

Composition :-

Potassium Potassium Borate	Boron Potassium Borate
% K ₂ O	% B
18	19.4

Dosage Recommendations :-

Crop	Foliar Spray Recommendations	
	Dose Kg / Hectare	Number of treatments
Sugar Beet	500g / 1000 L / Hectare	Two spray treatments at the eighth and sixteenth leaf stage
Watermelon - Melon		Two spraying treatments, the first at 4-6 leaves on the plant and the second before the fruit-set stage
Tomatoes, field crops, and the Solanaceae family		The first two sprays when the plant is 4-6 inches tall and the second spray before flowering
Grapes		3sprays, the first before flowering, the second at the beginning of the set, and the third before the fruit ripening stage

Usage Recommendations :-

FOLIAREL OK is compatible with most herbicides and liquid fertilizers, except for ammonia solutions, if the pH is maintained between 5 to 8.

FOLIAREL OK mixture should be used immediately after processing to avoid possible chemical changes in the water.

Avoid spraying during extremely hot conditions, during bright sun, or during the flowering stage.

If mixed with other materials, try on a small area first before generalizing.

Packing :-

FOLIAREL OK is available in 2 Kg