

## VIOSIL 38%



### FEATURES

VIOSIL 38% is a concentrated liquid fertilizer based on potassium silicate characterized by high solubility. Facilitates the absorption of nutrients in the plant by promoting the activity of the root and strengthening the stem; starting from This form stimulates growth and makes plants more resistant to disease. On the other hand, it improves the anti-stress capacity of the plants and facilitates the dissolution of any toxins from the soil.

VIOSIL 38% absorbs moisture. For this reason it is an effective fertilizer in reducing the amount of water. free which is deposited on the aerial part of the crops. Consequently, after the application of this product, an environment that is hostile to the development of rot (caused by Botrytis cinerea, Sclerotinia sp.), Powdery mildew or mold is obtained.

VIOSIL 38% it is a source of silicon and potassium. Participate in the constitution of cereals. Improves production, increasing post-harvest lifespan. It increases the BRIX degrees of the fruits and in the sugar cane counteracts the effects of ultraviolet rays. Avoid infertility in herbs.

### GUARANTEED ANALYSIS

(% M/M)

Potassium silicate	38,00%
Assimilable silicon (Si)	11,59%
Soluble silicon (SiO <sub>2</sub> )	14,92%
Potassium oxide (K <sub>2</sub> O) soluble in water	12,50%

### APPLICATIONS

VIOSIL 38% can be applied by foliar spray. It is very alkaline so it is advisable not to exceed the concentration of the dose indicated to avoid damage to plants

## VIOSIL K 460



### FEATURES

VIOSIL K 460 is an aqueous solution of the potassium salt of polymerized silicic acid. In addition to its function As an available source of silica and potassium for growth, it also increases resistance to environmental factors and can have a preventive effect against fungi.

VIOSIL K 460 is a 100% natural soluble liquid formula that controls the development of the root system, increasing the resistance of plants to abiotic and biotic stresses, such as high and low temperatures, wind, high concentrations of salts and heavy metals, hydrocarbons, aluminum, insects, fungi, diseases.

The silicon contained in VIOSIL K 460 is also deposited on the walls of root cells, acting as a barrier against the invasion of parasites and pathogens.

VIOSIL K 460 increases the productivity and quality of agricultural crops. It is a good fertilizer for grapevine, rice, corn, wheat, sugarcane, palm, mango, blackberry, guava, chili, beans, forage grass, etc.

VIOSIL K 460 strengthens the storage and distribution capacity of carbohydrates necessary for plant growth.

The applications VIOSIL 460 K reduces the leaching levels of nitrogen, phosphorus and potassium.

VIOSIL K 460 restores soil degradation by increasing the level of fertility, since the lack of silicon (assimilable monosilic amorphous silica acids) leads to the destruction of organo-mineral complexes.

VIOSIL K 460 increases resistance to drought. Its application in fertilization programs optimizes the use of irrigation water by 30 to 40% and extends irrigation intervals. In the same way it allows the rehabilitation of soils affected by salts and compaction.

### GUARANTEED ANALYSIS

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## SILI CALMAG



### FEATURES

SILI CALMAG is indicated as a fortifier of plant tissues for foliar and / or root application, whose purpose is to increase the tolerance of the crop to attack by pathogens, improve the shelf life of the fruit and increase the resistance of the plant and fruit to physical damage caused by rubbing, handling, etc.

Silicon (Si) accumulates in the epidermal tissues of the roots and shoots. Epidemic thickening of the silicate-cellulose layer supports the mechanical stability of plants and can improve their resistance to biotic and / or abiotic stress.

SILI CALMAG it is used as a source of calcium and magnesium in plant nutrition programs. Its application prevents and controls calcium deficiencies aggravated by mild magnesium and boron deficiencies.

Regular foliar applications of SILI CALMAG prevent the effects of deficiencies in silicon, calcium (apical necrosis, fruit cracking, early ripening) and magnesium (reduction of photosynthetic activity). This Therefore, yields with better vegetative growth and higher yields in crops are obtained.

## SILI CALMAG

- Increases the productivity and quality of agricultural crops.
- Increases the resistance of the soil against wind and water erosion.
- Increases drought resistance in plants.
- Promotes colonization by symbiotic microorganisms (bacteria and fungi).
- Reduces the leaching of phosphorus, nitrogen and potassium in agricultural cultivation areas.
- Increases the resistance of the salinity.
- Protects plants from attack by diseases, fungi and insects.
- Restores areas contaminated with heavy metals and hydrocarbons.
- It is part of the structure of the trichomes.

### GUARANTEED ANALYSIS

(% M/M)

Calcium oxide (CaO) soluble in water	11,00%
Magnesium oxide (MgO) soluble in water	10,00%
Silicon oxide (SiO <sub>2</sub> ) soluble in water	34,00%

## SILI SEC



### FEATURES

SILI SEC is a 100% natural compound based on micronized silica. The particle size is 7-9 microns. SILI SEC is a highly hygroscopic product (1kg SILI SEC absorbs 3L of water).

Therefore, its application drastically reduces both environmental humidity and any condensation at the level of the leaves. SILI SEC eliminates the high relative humidity which favors the proliferation of diseases of fungal origin such as rot (*Botrytis cinerea*), powdery mildew, downy mildew, etc.

SILI SEC is an effective fertilizer in reducing relative humidity, therefore its application prevents the appearance of fungal diseases. It is compatible with integrated pest management and does not cause phytotoxicity in plants.

### GUARANTEED ANALYSIS

(% M/M)

Silicon oxide (SiO <sub>2</sub> ) soluble in water	98,00%
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## SILICAL SP



### FEATURES

SILICAL SP is a product of natural origin which, thanks to its richness in trace elements, manages to fill the gaps caused in crops. SILICAL SP helps to control insects such as: mosquitoes, flies, caterpillars, spiders, lice, fleas, grasshoppers, etc., thanks to its physical-mechanical action, (producing small cuts in insects with the contact of SILICAL SP). It also repels mollusks such as slugs and slugs. SILICAL SP is also an effective desiccant in environments with excessive humidity. It protects cereals and seeds against fungi, viruses and bacteria, greatly improving germination. It is a totally harmless product for people and animals. Can be used as an insect repellent on animals.

### GUARANTEED ANALYSIS

(% M/M)

Calcium oxide (CaO) soluble in water	48,15%
Calcium (Ca) soluble in water	34,70%
Silicon oxide (SiO <sub>2</sub> ) soluble in water	50,69%

## SIL TRIPLE NPK



### FEATURES

SIL TRIPLE NPK is a Silicon-based liquid fertilizer enriched with Nitrogen, Phosphorus and Potassium. Silicon is rapidly transported to plants through the xylem optimizing the physical and chemical properties of the soil and the structural and cellular development of plants. SIL TRIPLE NPK strengthens the cuticles, forming a protective barrier against fungi, bacteria and the attack of sucking insects such as Acari, Aphi dos and White Fly. It also protects plants from excessive water loss due to transpiration; causes greater mass and volume of roots; intensifies the sugar content in fruit trees; increases productivity in horticulture and improves forage production. Its continued use reduces urea and pesticide applications.

SIL TRIPLE NPK it allows rapid absorption of mineral nutrients because they are combined with natural low molecular weight chelating agents.

## Advantages of SIL TRIPLE NPK:

- Protects plants from excessive water loss through transpiration.
- Causes greater root mass and volume.
- Intensifies the sugar content in fruit trees.
- Improvement of the condition of the stalk.
- Increases productivity in horticulture and improves forage production.

## GUARANTEED ANALYSIS

(% M/M)

Calcium oxide (CaO) soluble in water	5,00%
Magnesium oxide (MgO) soluble in water	7,00%
Silicon oxide (SiO <sub>2</sub> ) soluble in water	3,00%
Silicon oxide (SiO <sub>2</sub> ) soluble in water	10,00%

## SEASIL NPK



## FEATURES

SEASIL NPK is a liquid NPK fertilizer with silicates and Ecklonia Máxima seaweed extract that helps strengthen plants.

It is mainly used for foliar fertilization of cereals, since the silica present in the product is incorporated into the cell walls avoiding problems of lodging, improving resistance to stress, disease and drought.

The combination of nutrients with Ecklonia Máxima seaweed extract facilitates growth, yield and vitality in crops.

SEASIL NPK contains, in addition to the minerals provided by the nutrients, valuable nutrients and nutrients that Ecklonia seaweed extract provides.

## GUARANTEED ANALYSIS

(% M/V)

Total nitrogen (N)	5,00%
Urea nitrogen (N)	5,00%
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water	3,00%
Potassium oxide (K <sub>2</sub> O) soluble in water	7,00%
Silicic acid (SiO <sub>3</sub> ) soluble in water	10,00%
Total Organic Matter	22,70%
Maximum Ecklonia seaweed extract	22,70%
Alginate acid	0,60%
mannitol	0,20%
The product contains Ecklonia Máxima seaweed extract	

## VIOSIL L



## FEATURES

VOSIL L is absorbed by the plant in the form of monosilicic acid (H<sub>4</sub>SiO<sub>4</sub>), it accumulates mainly in the areas of maximum perspiration (trichomes, spines, etc.) such as polymerized polysilicic acid (amorphous silica). The deposit of VOSIL L between the cuticle and the epidermis of the leaves confers protection to the plants and reduces the effects of stress of a biotic or abiotic nature.

VOSIL L occurs more frequently in areas where water is lost in large quantities, that is, in the foliar epidermis, together with the guard cells of the stomata and other epidermal cells. Those deposits of VOSIL L in foliar tissues they promote a reduction in the rate of perspiration.

In addition to the effect on perspiration, the deposition of VOSIL L on the cell walls makes the plants more resistant to the action of fungi and insects. This occurs due to the association of VOSIL L with constituents of the cell wall, making them less accessible to enzymes that cause degradation (mechanical resistance). Fertilization with VOSIL L has shown efficacy in the control of several important diseases, mainly fungus.

Benefits of using VOSIL L in agriculture

1. The use of VOSIL L silicon (edaphic or foliar fertilization) has contributed to improve the absorption of macro and micro nutrients by plants.
2. Increase in crop productivity, especially by increasing their resistance to attack by pests, significantly reducing the use of pesticides and pesticides.
3. Manifestation of benefits in plants known as accumulators (rice, sugarcane, pastures), as well as in plants that do not accumulate silicon (tomato, some vegetables, etc.).
4. Greater development of plants, which enables greater production per cultivated hectare.
5. Protection of the crop against specific diseases of each plant.

## GUARANTEED ANALYSIS

(% M/M)

Silicon Oxide (SiO <sub>2</sub> ) soluble in water	48,50%
Silicon (Si) soluble in water	22,70%