

Silicium Plus

PHYTOFORTIFIER

That enhances the plant's natural defences

Activates the natural defence mechanisms of crops

Supports the plant under biotic and abiotic stress conditions

Promotes calcium uptake and reduces water loss in the plant



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Silicium Plus



Characteristics

Silicium Plus is a phytofortifier based on silicon (Si) and potassium (K) that reinforces the mechanical strength of the leaf epidermis and activates the natural defence mechanisms of crops under biotic and abiotic stress conditions, while improving production quality. Silicon (Si) is present in a biologically active form as orthosilicic acid (H_4SiO_4), stabilized with humic substances, carbohydrates, and amino acids, which facilitate its uptake and enhance its effectiveness. Once absorbed, it accumulates in the superficial layers of plant tissues, providing strength and flexibility, and reducing water loss inside the plant. This helps support the plant during water and salt stress by regulating transpiration and mitigating the negative effects of salts and heavy metals. Moreover, its presence in plant tissues improves fruit consistency, enhancing quality and shelf life, also thanks to its ability to promote calcium (Ca) uptake. Additionally, the formation of opaline deposits creates a physical barrier that hinders pathogen penetration and reduces the water available for their development. Potassium (K), also present in the product, promotes cell turgor, increases sugar accumulation in fruits, and further reinforces the mechanical strength of the leaf epidermis.

Composition

	w/w*	w/v
Watersoluble potassium oxide (K_2O)	10.0%	13.0%
Orthosilicic acid (H_4SiO_4) in solution with humic substances, carbohydrates, amino acids **	45.0%	58.7%

Raw materials: potassium salts, humic extracts. **Data not present on the label.

*Equivalent to w/v at 20°C.

Doses and Instructions

CROPS	FOLIAR APPLICATION	DOSE ml/hl*
Fruit trees	From the vegetative restart phase to harvest	50-80
Horticultural crops	From the transplant stage and throughout the growth cycle	50-80
Ornamentals	From the transplant stage and throughout the growth cycle	50-80
Industrial crops	From the transplant stage and throughout the growth cycle	50-80

*The doses are indicative and should be adjusted based on the characteristics of the area and the specific needs of each crop.

Formulation

Packaging

Density (T=20°C)

pH (sol. 6 %)

Conductivity (sol. 10 %)

Soluble liquid

1-5-10-20 l

~ 1304 kg/m³

~ 12.6

~ 50.1 dS/m

Warnings

When mixed with other products, it is recommended to carry out preliminary compatibility and miscibility tests on small areas and a limited number of plants. When mixing **Silicium Plus** with other products, dilute it in the final water volume first, then use an acidifier to adjust the pH to 5.0-5.5. Do not pre-dilute the product in volumes of water lower than the total and final volume expected for the application. It is recommended not to use in mixture with white oils, oily products, or copper or sulfur based products. We recommend a minimum of 5-7 applications per season for a total dose of 3-4.5 l.

Technical Notes



FOLIAR
APPLICATION



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