

# SIL-CA



**Calcium Silicate Fertilizer**  
Soil/Foliar



Calcium silicate fertilizer

COMPOSITION		%w/v
Silicon (SiO <sub>2</sub> )		24,0
Calcium (Ca)		15,0
Density	1,40	
pH	7,8	

- NUTRITION
- FUNGICIDE
- MITICIDE
- INSECTICIDE

## CHARACTERISTICS

SIL-CA is a fortifier of plant tissues for foliar and soil use whose purpose is to increase the tolerance of the crop to the attack of pathogens, increasing the life of the fruit and increasing the resistance of the plant and the fruit to the physical damages caused by friction, manipulation, etc.

Calcium is a key element in all stages of a plant's cycle. It is essential for growing reaching from germination up to ripening of the fruits. Calcium makes vegetal tissues more resistant.

### Resistance to Disease and Pest

Si deposition in the epidermis tissues provides a physical barrier to pathogens and insects, allowing for a reduction in the frequency of chemical applications

### Cell Structure

Si accumulated in the epidermal tissues increases the mechanical stability of the plant. Reduces the incident of lodging

### Photosynthetic Activity

The improved structure produces stronger stems with more erect leaves, increasing its ability to capture light

### Uptake of Nutrients

Particularly Nitrogen, Phosphorous, Potassium and Micronutrients

### Resistance to Environmental Stress

- Reduced drought and heat stress. The deposition of Si in the plant tissues reduces transpiration rates.
- Reduce salt stress by inhibiting Sodium uptake.
- Alleviate toxicity of heavy metals: Iron, Manganese, Cadmiun, Aluminium, and Zinc by regulating plant uptake

### Post Harvest Life

Si can associate with cell wall proteins where it might exert an active production of defence compounds

## DOSAGE AND APPLICATION

Crops	Doses (L/ha/application)	
	SOIL	FOLIAR
Garlic and onion	5-10	1-4 0.5-1
Banana	7-15	1-4
Berries	5-10	1-3
Crucifers	5-10	1-4
Cucurbitaceae		
Fruit trees	5-10	2-4
Gramineae		1-4
Lettuce		1-4
Legumes		1-4
Ornamental	7-15	2-6
Papaya	5-10	1-6
Grass	10-40	
Solanaceous	5-10	1-4
Carrot	5-10	1-3

