



# TIOPLUS CALCIO®

Liquid fertilizer based on calcium thiosulphate

## CHARACTERISTICS

TIOPLUS CALCIO is new in the brand of calcium fertilizers. This product is high in calcium and sulphur, but is totally free of nitrogen and chlorides.

## EFFICACY

- ✓ *High calcium content*
- ✓ *Free of nitrogen*
- ✓ *Free of chlorides*
- ✓ *High sulphur content*
- ✓ *Strong acidulant power*
- ✓ *Strong antichloristic action*
- ✓ *Optimises soil microelements absorption*

Calcium is an essential element for the growth of plants. It is present in the medium lamina of the cells. It provides a balancing function for the organic acids, and is important for cell extension, for solid vegetable tissue and promotes the permeability of cells.

Generally calcium fertilizers present problems for the supply of chlorides and nitric nitrogen that stimulate the vegetative growth in plants. This also does not allow the calcium to be a benefit in the vegetable tissue.

TIOPLUS CALCIO is a liquid fertilizer made of calcium thiosulphate a "clear solution" and a good calcium source without nitric nitrogen and chlorides, so there are no negative effects.

Good absorption of calcium, with the use of TIOPLUS CALCIO, increases the developing and the colouring of the fruit, the quality and the fruit preservation and reduces physical-disease (leaf spot disease, rolling up of leaves, rottenness, bitter pit, destruction of veins and stems, splitting of fruit).

TIOPLUS CALCIO is a product of the TIOPLUS brand. TIOPLUS has high thiosulphate content so it helps to develop soil ameliorants, and also improves the chemical and physical soil properties.

TIOPLUS, makes possible:

- an increase in the treated soil of nitrogen, potassium and sulphur, elements indispensable for the nutrition of the plant (nutritional action);
- reducing the pH of the soil: thiosulphate ions, in the soil are oxidated to sulphate decreasing the pH value. The reduction of pH in alkaline soils improves availability and absorption of a larger number of nutritive elements such as phosphorus, iron, manganese, copper, zinc, and boron (acidifying action);
- improving the availability and assimilation of iron and manganese: thiosulphate ions are oxidized in the soil so they have a strong "reducing action" and turn the oxidized forms of iron ( $Fe^{3+}$ ) and manganese ( $Mn^{4+}$ ) that are present but not able to be assimilated into the "reduced forms"  $Fe^{2+}$  and  $Mn^{2+}$  absorbable by roots (reducing action);
- the regulating of the available nitrogen acting on enzymes that change nitrogen in the soil (urease and enzymes of nitrification). This restraining action guarantees a gradual release of the elements, giving a constant supply to the plants, reducing the loss of nitrogen from the soil and the danger of accumulated nitrates in the plant (giving a gradual nitrogen release);

**RESULTS**

TIOPLUS CALCIO is needed for fast results when it is important to give plants good solid vegetable tissue.

**COMPOSITION**

	% w/w	% w/v
Calcium oxide (CaO) soluble in water	9	11,2
Magnesium oxide (MgO) soluble in water	1	1,2
Sulphur trioxide (SO <sub>3</sub> ) soluble in water	23	28,7

**SPECIFICATION**

Density 1250 g / lt      pH 7 – 8

**STATE**

Liquid

**APPLICATION**

Soil and foliar

**DOSES, WAY, TIME OF APPLICATION**

Crops	Time of application	Application rate	N° of applications
Fruit trees, Vines, Olives	During vegetative development In the first period of fruit-swelling	Soil 40-50 lt/ha Foliar 5-6 lt/ha	3-6 applications at 15 -20 day intervals
Vegetables, Leafy vegetables, Flowers, Ornamental shrubs and trees, Industrial crops	Development and maturation of the fruit, final growth of flower crops.	Soil 30-40 lt/ha Foliar 5-6 lt/ha	

**PACKAGING**

20 lt can  
210 lt drum  
1000 lt IBC tank

**WARNING**

The product is stable from +5°C to +35°C. It must be kept in airy, cool, dry places, far from sources of heat/ignition, and it must be protected from sunlight.