

Dynamic

For **Calcium, Magnesium, Boron and Potassium** deficiencies in all crops

Dynamic is a liquid fertilizer that acts quickly and is specially designed for the rapid treatment of Calcium, Magnesium, Boron and Potassium deficiencies. It is recommended for foliar sprays and fertigation. Due to its directly assimilable ingredients, **Dynamic** not only is highly effective in the treatment of nutrient deficiencies but also the results of its action are immediately visible.

<u>Typical analysis</u>	<u>(w/w)</u>	<u>(w/v)</u>
Nitrogen (N)	8.25 %	12.20 %
Potassium (K ₂ O)	5.00 %	7.10 %
Calcium (CaO)	10.00 %	14.10 %
Magnesium (MgO) ...	2.00 %	2.80 %
Boron (B)	0.10 %	0.15 %

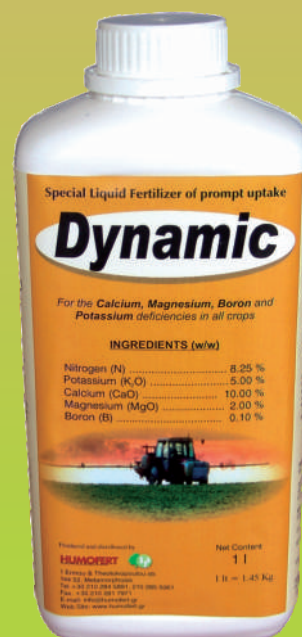


DYNAMIC contains the 2 primary macronutrients, calcium and magnesium. **Calcium** (Ca) increases the cell wall thickness and therefore the plant tissues become more stable and the fruits become much firmer. Calcium also fortifies the resistance of the fruits against the insects' infections and the tolerance of the fruits against cracking and bruising that is caused during transports. Furthermore, calcium improves the fruit quality.

Magnesium (Mg) is the central ion in the chlorophyll molecule and thereby is essential for the photosynthesis procedure. Magnesium activates many metabolic pathways that are conducted during the formation of fruits and also during the production of carbohydrates and lipids.

PROPERTIES

- Protection of the vineyard from the rachis drying (necrosis)
- Prevention and treatment of the apical rot of the tomatoes
- Improvement of the fruit's size and enhancement of the consistency of the plant's cells
- Increase of the fruit shelf life and improvement of the tolerance of fruits during transportations
- Improvement of the treatment of the cracks that are caused in the plant tissues by environmental stress factors such as adverse weather conditions or even diseases (botrytis infection)



HUMOFERT



1 Ermou & Theotokopoulou str., 144 52 Metamorphosis, Tel. +30 210 284 5891
Fax. +30 210 281 7971, Web Site: www.humofert.gr E-mail: info@humofert.gr



Apples-Bitter pit

It is related to calcium deficiency. The symptoms of the bitter pit are the small spots on fruits, the brown corky spots on the skin or even on the flesh of the fruits and the bitter taste of the fruits in these spots. The above symptoms usually occur during storage of fruits. Calcium is not only an essential nutrient for the apples but also regulates many physiological functions of them such as respiration, ethylene release e.t.c..

Vineyard-Rachis and berry drying

It is caused by the disturbance of Calcium – Magnesium – Potassium balance in vineyard. The symptoms of the rachis and berry drying appear at the beginning of the grapes maturing. In the upper part of the bunch, the berries are withering, followed by rachis browning and finally rachis drying.



Tomato-Apical rot

The symptoms of calcium deficiency appear at the end of the spring blooming. It begins as a small water-soaked area (spot) at the end of the fruit. As the lesion develops, the spot enlarges, becomes sunken and after that it turns black (start to rotting) and the tissue of the plant at this spot becomes leathery.

Pepper

The symptoms of calcium deficiency in pepper are similar to those on tomatoes with the difference that the affected area appears tan. Usually the symptoms on the fruits may be mistaken as sun burns.



Strawberry

The symptoms of calcium deficiency in strawberry appear on the young leaves and look like burn on the leaf tips. The tips of these leaves cannot fully grow and they turn black. The fruit develops a thick membrane either in single points or over the entire fruit and also the flavor of the fruit becomes sour.

The symptoms of magnesium deficiency in strawberry appear as a marginal leaf scorch which firstly appears as yellowing and then browning. The fruits appear normal, except that they have a lighter color and softer texture.

CALCIUM-MAGNESIUM DEFICIENCIES

Calcium-Magnesium deficiencies in plants can be caused either by Calcium-Magnesium deficiency in the soil or by factors which reduce the plants' ability to absorb these elements. Such factors are the excessive soil humidity, the low temperatures, and the root infections by pathogens. The most common symptoms of Ca / Mg deficiency in plants are slow rate of plant growth, small fruit set, small fruits, chlorosis, spotting and/or necrosis of the leaves' lamina.

Dynamic is a safe choice for all crops that are susceptible to calcium-magnesium deficiencies. The high-quality source of origin of the nutrients that are contained in Dynamic are the guarantee for the effectiveness of the product in the prevention and treatment of the deficiencies in Calcium and Magnesium in plants.

APPLICATIONS-APPLICATION RATE

Foliar Applications

Generally apply 2-4 l/ha diluted in appropriate amount of water (dilution rate 1:200-400) that is required to cover the foliage thoroughly.

Soil applications

Apply by fertigation at a rate of 15-30 l/ha, diluted in an appropriate amount of water for the full coverage of the application area.

Application rates always depend on the deficiency intensity, the type and the size of crop as well as the local environmental conditions. At the initial growth stages of the crop it is recommended to apply Dynamic at the minimum suggested application rate. Applications can be repeated every 15 days until the symptoms are eliminated.