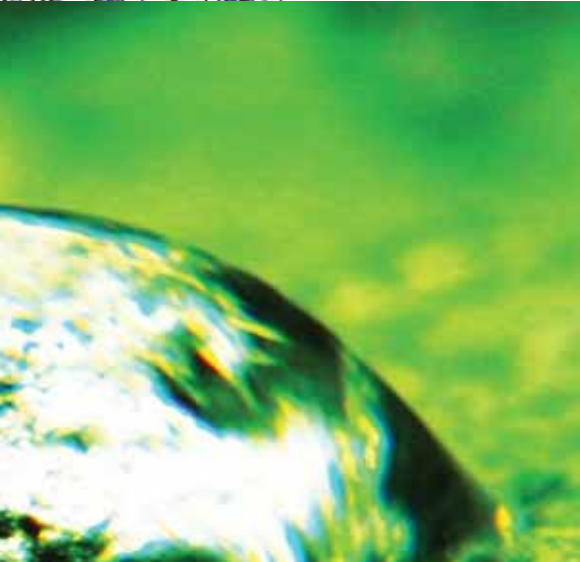


OPENGREEN



Special Vine



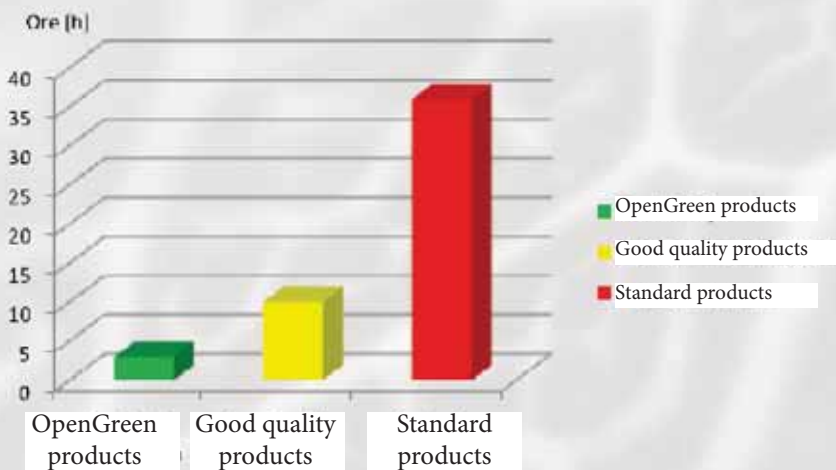
OPENGREEN

Founded in 1994, Open Green operates in the field of plant nutrition and today with a new division dedicated to special granular fertilizers. In this catalogue we present the range of fertilizers and bioinducers from the range NUTRITIONAL SPECIALTIES, a sector on which Open Green has worked continuously in research and development of products with wide action spectrum, which are also capable to resolve a lot of nutritional pathologies which affect the quality and productivity of cultures. The agrochemical sectors of these products are targeting either the extensive cultures such cereals, as well as the more technologically advanced horticulture also in tunnel and hydroponics. Open Green, has developed relationships in many countries by creating a network of technical information and opportunities which allows it to be continuously adjourned and to strengthen its synergies with distributors and research centers. Open Green has succeeded to be present also in international market, promoting and developing efficient and technologically advanced products and techniques. Products listed in this catalogue are built with the most advanced production systems with choice of highest quality raw material to guarantee an exclusive quality standard of chelated microelements, bioinducers, water soluble and foliar fertilizers, amino acids and exclusive specialties. The quality of Open Green formulations is very pure; it does not create any phytotoxicity and many are from alimentary origin. Open Green offers accurate analysis of soil, leaf and water in order to determine accurate fertilizing plans for an optimized use of this product range.

Foliar fertilization

Foliar fertilization is a fertilizing technique that utilizes the ability of plants absorb water and mineral salts dissolved in it through the epidermis and the stomas of the leaves. The behavior of plants and the effectiveness of the intervention varies according to different factors (plant species, leaf age, morphology, substances used, spraying methods, etc.), it should in any case be considered that the plants are naturally carried radical mineral nutrition, so the dosages applicable to leaf fertilization are much lower than those for ordinary fertilization, although they are very effective. It should in any case be considered that the use of high doses of specific substances may lead to toxic effects. In general, leaf foliage is not suitable for nutritional purposes, but can be considered above all as an integrative intervention that allows the resolution of nutritional deficiencies, often frequent for the microelements (iron, zinc, copper, boron, manganese, molybdenum and the addition of amino acids and stimulants and quick-assimilating reinforces. The trace elements are absorbed in very limited quantities and nutritional deficiencies are usually caused by phenomena insolubility or absorption antagonism rather than real defects in the soil. In this case leaf-based administration allows to get rid of the effects that have caused the deficiency.

Foliar absorption in hours [h]



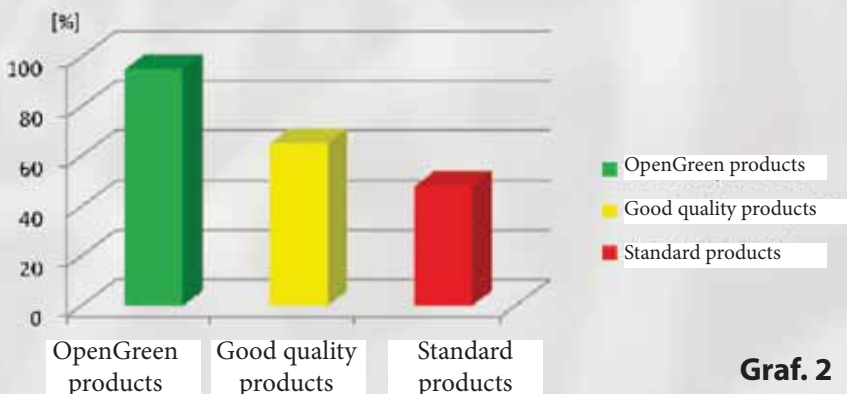
Graf. 1

In these two graphs we highlight the key features of foliar and fertile Open Green fertilizer

Graf. 1: demonstrates that all Open Green leaves are absorbed in just 3 hours. On the other hand, the good products of the competition are already sold in 8-10 hours, up to 36 hours of standard products.

Graf. 2: shows the percentages of fertilizer absorbed. Open Green fertilizers are completely absorbed by the plant, on the other hand, already good competing products are absorbed at 60% and standards at 40%.

Percentage of fertilizer absorption [%]



Graf. 2

These enormous differences are given starting from the selection of raw materials: the purity, the absence of pollutants, the absence of heavy metals, the absence of chlorides, sulphates and carbonates. All this translates into a larger one penetration and total absorption rate in the plant.

Ramendo

Liquid

EC FERTILIZER

Copper and iron chelated by EDTA

CHEMICAL COMPOSITION

W/W

- Water soluble Copper (Cu) 3% +/-0,4
- Copper (Cu) chelated with EDTA 3% +/-0,4
- Water soluble Iron (Fe) 0,5% +/-0,4
- Iron (Fe) chelated by EDTA 0,5% +/- 0,4

Raw materials: Copper chelated by EDTA, Iron (Fe) chelated by EDTA



CHEMO - PHYSICAL INFORMATION

- Chemical name: Ethylendiaminetetracetic acid, copper and iron complex
- Type of chelate, international initials: EDTA
- Aspect: green-oil liquid
- Volumetric mass density: 1100 Kg/m³
- pH 1%: 6,5
- Smell: slightly EDTA



EC FERTILIZER

Compliant to the Reg. CE n. 2003/2003 of October 13 th



Authorized in Organic Farming according to EC Regulation N° 834/2007 of 28 June 2007

CHARACTERISTICS

- Specific against Bacteriosis
- Also preventive against peronospora
- Universally used to control copper deficiency by foliar uptake
- To be distributed at recognized deficiency every 8 days for 5-7 treatments
- ENDOTHERAPEUTIC; penetrates the leaf without being subject to washability
- Cicatrizant action after a hailstorm
- Dipping the roots before transplantation, may prevent against infections
- Very strong synergic action between copper and iron (2 naturally antagonist elements)



DOSAGES

Foliar treatment	g/hl	kg/ha
Straw cereals Soft/hard wheat	300-400	1,5-2
Melon	200-300	2-3
Tomato	300-500	3-5
Flower plants	200-300	2-3
Horticulture	300-400	3-4
Grapes	300-500	3-5
Olive	500-600	5-6
Sugar beet	200-400	2-4

Foliar treatment
Specialized
Applicable also with U.L.V.



Radical treatment e fertirrigation
Under technical advise



Drop by drop treatment
Under technical advise



Use the product during the coolest periods of the day.

ENDOTHERAPIC...



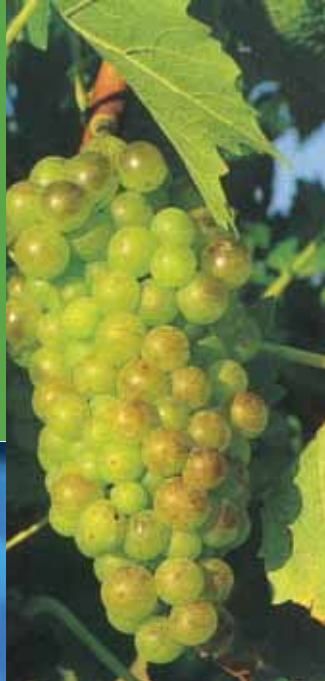
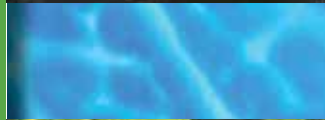
RAMENDO is a fertilizer that, entering the plant due to its endotherapeuticity, helps the plant to block the development of the parasites installed inside the plant organs.

RAMENDO can be distributed with normal or low-water equipment per hectare; in this case, suitable concentrations are recommended to be evaluated from time to time in specific cases.



ramendo

...AND TRANSLAMINAR



It can also be used in the following cases:

after a hailstorm as it exerts a healing action.

In these cases where it is necessary to obtain constancy of green color and thickness of leaves see for example: spinach, salads, etc.

in cases where the development of the plant is limited by access from stress caused by water stagnation.

Given above the ground it forms a semi-permeable membrane where it is necessary to maintain a more important percentage of humidity, or where the possibility of irrigation is scarce. (in fact, **RAMENDO** reacts with the silica dioxide present in the soil).



EC FERTILIZER

Manganese and Zinc chelated with EDTA

CHEMICAL COMPOSITION W/W

- Water soluble Manganese (Mn) 3% +/-0,4
- Manganese (Mn) chelated with EDTA 3% +/-0,4
- Water soluble Zinc (Zn) 1,0% +/-0,4
- Zinc (Zn) chelated with EDTA 1,0% +/-0,4

Raw materials: Manganese chelate (EDTA), Zinc chelate (EDTA)



CHEMO - PHYSICAL INFORMATION

- Chemical name: Ethylendiaminetetracetic acid, Manganese and Zinc complex
- Type of product, international initials: EDTA
- Aspect: pinkish liquid
- Volumetric mass density: 1150 Kg/mc
- pH 1%: 6,5
- Smell: slightly EDTA



EC FERTILIZER

Compliant to the Reg. CE n. 2003/2003 of October 13 th



Authorized in Organic Farming

according to EC Regulation N° 834/2007 of 28 June 2007

CHARACTERISTICS

Chelated chemical complex in which the zinc content 1% is chemically linked to the manganese 3% throughout an EDTA which renders them extremely stable. INCAS is characterized by a high biologic action and a long-lasting persistence on leaves. INCAS positively acts on the biologic process of the treated plants and stimulates their endogenous mechanism of defence as well. The specific composition of this liquid ready-to-use formulation is conceived to penetrate the plant easily and rapidly. The nature of the formulation does not allow the formation of drops which cause burns to the leaves through the lens effect. Besides, the product is not washable.

- Efficient control of nutritional physiopathologies.
- Universally used to control manganese & zinc deficiency by foliar uptake and by fertirrigation
- Distribute at recognized deficiency every 8 days until disappearance of symptoms
- The product is SYSTEMIC; penetrates the leaf without being subject to washability.
- Allowed in organic farming

DOSAGES

Foliar treatment	g/hl	kg/ha
Melon	200-300	2-3
Tomato	300-500	3-5
Floriculture	200-300	2-3
Horticulture	300-400	3-4
Grape	300-500	3-5
Olive	500-600	5-6
Sugar beet	200-400	2-4
Pomacee e Drupaceous	300-500	3-5

Fertirrigation:

kg 10-15 /ha on all crops

Please note: in foliar treatment the product has to be used during the coolest periods of the day.

Foliar treatment
Specialized
Applicable also with U.L.V.



Radical treatment e fertirrigation
Under technical advise



Drop by drop treatment
Under technical advise



CHARACTERISTICS

STIMULATE ENDOGEN PROTECTIVE MECHANISMS

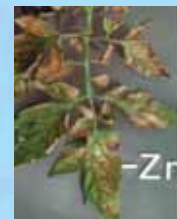
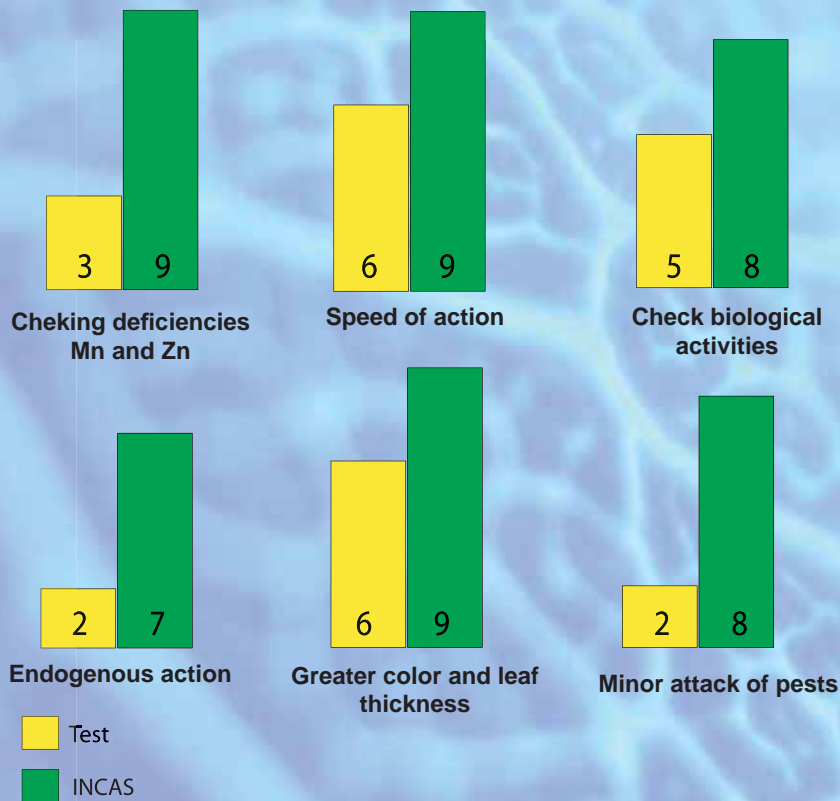
LIQUID PRODUCT READY TO USE, HIGH BIOLOGICAL ACTION AND SPEED OF ACTION

DEFENSE CORRECTOR OF MN AND ZN

CHIMATE CHEMICAL COMPLEX WITH EDTA IN WHICH THE ZN IS CHEMICALLY COMBINED WITH MN



Some experiments developed over the years and results:



Vegetik

Liquid



EC FERTILIZER - PK fertilizer solution

CHEMICAL COMPOSITION W/W

- | | |
|---|-----|
| • Water soluble Phosphorus pentoxide (P_2O_5) | 30% |
| • Water soluble Potassium oxide (K_2O) | 20% |

CHEMO - PHYSICAL INFORMATION

- Chemical name: phospho-potassic fertilizer
- Type of product, international initials: PK fertilizer compound in solution
- Aspect: transparent/light blue liquid
- Volumetric mass density: 1360 – 1390 Kg/m³
- pH: 4,3 – 4,7
- Smell: none
- pH range: active between pH 3 - 10



EC FERTILIZER
Compliant to the Reg. CE n.
2003/2003 of October 13 th



CHARACTERISTICS

- **Vegetik** is a pure PK product, precursor of a new concept of fertilization.
- Unlike Mimetik (100% sequestered), **Vegetik** is salified.
- Triggers the endogenous defence by stimulating the production of phytoalexins.
- Penetrates the plant in only 3-6 hours.
- Systemic product (ascending & descending action).
- Low application rates.
- Mostly used by foliar uptake, nevertheless it can be also implied in fertirrigation, where it is stable between pH 3 – 10.

Foliar treatment
Specialized
Applicable also with U.L.V.



Radical treatment e fertirrigation
Recommended



Drop by drop treatment
Recommended



DOSAGES

Foliar:

Universally a g 350-400/hl or kg 3,5-4/ha.

Fertirrigation:

Universally a kg 10-15/ha also divided into 2-3 treatments .

CHARACTERISTICS

MINERAL LIQUID PK FERTILIZER

pH	5 - 6
DENSITY	1,36 - 1,39
COLOR	TRANSPARENT
FORMULATION	LIQUID
PRODUCT	COMPLEX



COMPOSITION

Phosphorus pentoxide (P_2O_5)	30%
Potassium oxide (K_2O)	20%

Potassium phosphite 100%



FITOALESSINE are substances produced by plants as an ANTINFECTONAL REACTION with ASPECIFIC action (ie directed against all pathogens); thanks to their systemic activity (both ascending and descending) the immune defenses of the plant become much more effective, making the plant practically unassailable by external pathogens.

- MORE PRODUCTION OF ENDOGENIC ENZYMES
(ex: catalase that inhibit the pathogen enzymes involved in the immune reaction)
- PRODUCTION OF SPECIFIC METABOLITES

Verbel

Liquid

BIOINDUCER

Amino-acids, L. Amino-Acids, Proteins, Vitamins, Natural chelates

CHEMICAL COMPOSITION

- Amino acids
- L. Amino acids
- Proteins
- Vitamins
- Naturally chelated microelements

CHEMO - PHYSICAL INFORMATION


- Chemical name: Amino acids, Free amino acids, Proteins, Vitamins, Natural chelates
- Type of product, international initials: Bioinducer
- Aspect: brown liquid
- Volumetric mass density: 1300 Kg/mc
- pH 1%: 7,0
- Smell: nessuno
- Natural components: Corn, soy.



CHARACTERISTICS

- Effective control for nutritional deficiencies.
- Helps recovery from environmental stress damaging to the plant and consequently to production.
- Universal product thanks to its flexibility, trigger, speed, agility
- Penetrates the plant in only 3-6 hours
- Favours the improvement of crop production
- Optimizes the dimension of fruit
- Improves the organoleptic characteristics
- Makes the calibre of fruits much more constant
- Improves the brix grade of fruits

DOSAGES

Foliar treatment
Specialized
Applicable also with U.L.V. 

Radical treatment e fertirrigation
Recommended at 15-30 Kg/ha 

Drop by drop treatment
Not recommended 

Foliar treatment	g/hl	kg/ha
Cereals	300-400	3-4
Grape	150-250	1,5-2,5
Olive	150-250	1,5-2,5
Apple, pear	150-250	1,5-2,5
Kiwi	150-250	1,5-2,5
Drupaceous	150-250	1,5-2,5
Citrus	150-250	1,5-2,5
Ornamentals	150-250	1,5-2,5
Nurseries	150-250	1,5-2,5
Strawberry	150-250	1,5-2,5
Horticulture	150-250	1,5-2,5

Fertirrigation:

10-20 Kg/ha applied 3-5 during the vegetative cycle on all crops.

CHARACTERISTICS



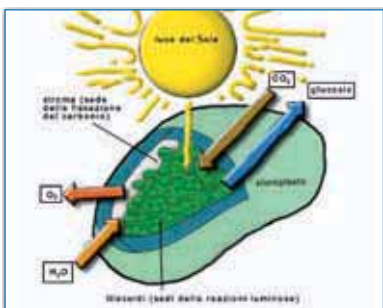
Valina, leucina, glicina, alanina, isoleucina, arginina, develop the organoleptic characteristics



Prolina, acido Glutammico they develop the fruit set



Fenilalanina reinforce color



Valina, leucina, glicina, listina, acido glutammico chlorophyll photosynthesis improve

- 35% more essential amino acids than the average normal formulated
- It is absolutely neither toxic nor phytotoxic to plants in the various phenological stages or to useful insects
- more balanced percentage between L and D amino acids
- low molecular weight, short chain.
- homogeneity and flexibility of use
- contains vitamins, macro-meso and naturally chelated microelements, Ca, Mg, S, Fe, Zn, Mn, B, Cu, Co, Mo
- salinity, proportionally to the amino acid charge, very low.
- 100% of vegetalier Mais and Soy origin.
- Authorized in organic farming
- 14% of L amino acids.

WHAT IS THE USE OF VERBEL ?

OBJECT	RESPONSE TO THE STRESS	WITH VERBEL
Stomata	Closing	Opening
Photosynthesis	Reduction	Increase
Senescence	Acceleration	Slowdown
Amino Acids	Accumulation	Contribution in assimilable form



Special Vine



OPENGREEN

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