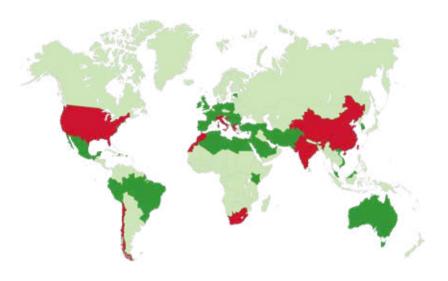


CATALOGUE 2024



K-ADRIATICA IN THE WORLD





Today K-Adriatica has a worldwide presence with 4 production plants (3 in Italy and 1 in Croatia), 8 subsidiaries (Croatia, Morocco, Greece, Chile, China, South Africa, USA and India) and distributors in more than **80** countries.

LEGAL HEADOUARTERS AND MANUFACTURING

FACILITY LOREO

Strada Dogado 300, 19/21 45017 Loreo (RO) +39 0426 669611

info@k-adriatica.it

PRODUCTION SITES

NOICATTARO

Viale Saponaro Sindaco, 35 70016 Noicattaro

÷39 0426 669611 info@k-adriatica.it

MELFI

Zona Ind. San Nicola 85025 Melfi (PZ) +39 0426 669611 info@k-adriatica.it

ADRIATICA HELLAS

Pentelis Avenue 72.

1ST Floor, P.o. 15234

Halandri Athens,

Attiki, Greece +30 2106817700 VUKOVAR

Vinkovacka, 56 32000 Vukovar +38 532432826 info@k-adriatica.hr

COMMERCIAL SUBSIDIARIES

ADRIATICA DUNAV D.O.O.

Vinkovacka, 56 32000 Vukovar +38 532432826 info@k-adriatica.hr **MAGHREB** ADRIATICA F S.A.R.L.A.U.

K ADRIATICA

5 Barn Road,

(PTY) LTD

Bergyliet

Africa

rodrigo@

SOUTH AFRICA

Western Cape, 7945,

Republic of South

+27 820550632

globaltechnical.com

Llè des Cactus n.18-3eme étage n.6 Sidi Bernoussi-Casablanca +21 2522674723 maghreb@kadriatica.ma

K-ADRIATICA USA

info@k-adriatica.gr

551 Fifth Avenue, Suite 1810 10176 NEW YORK +1 913 224 2945 adriatica.usa@kadriatica.com

ADRIATICA CHILE AGRONUTRICIÓN S.P.A

PEDRO CANISIO, Nro 1230, Vitacura ROL:937-23 Santiago +56 227277687 info@k-adriatica.cl

ADRIATICA (BEIIING) TRADING CO., LTD Huasheng

International Building, 17th floor, room 17049, No.12 Yabao Road Chaoyang District, Beijing, China +86 01064136260 luca.blayer@ adriatica.it

CORP

K-ADRIATICA INDIA AGRINUTRITION PRIVATE LIMITED

Aianta Building Flat #1, 1st Floor, LD Ruparel Marg, Malabar Hill, 400006 MUMBAI info@k-adriatica.in

2010 **ADRIATICA DUNAV**

2015 **ADRIATICA MAGHREB**

2017 **ADRIATICA** HELLAS

2018 **ADRIATICA** CILE

2020 **ADRIATICA** BEIIING

2019 **ADRIATICA** SOUTH **AFRICA**

2023 **ADRIATICA** INDIA

2023 **ADRIATICA USA**







2000Kappa SpA becomes **Adriatica SpA**



2003 K- Adriatica differentiates the business. born Veneto Sementi



2008

K- Adriatica integra the research company ISTA



2009 K-Adriatica acquires Agroalimentare Sud





2013

K-Adriatica Acquires Agrofill

HYDRO... 2014

K-Adriatica Acquires Iko-Hydro



2014

Born Fondazione Kappa

VERDITERRE 2022

K-Adriatica Acquires Verdi Terre

OUR PATH TO THE FUTURE

For more than 50 years we've been committed to sustainably nourishing the world.

We are constantly connected to the farming world whose needs we acknowledge to develop new solutions for the health and nutrition of plants and soil.

We invest in technological innovation and product improvement, empowering our manufacturing plants to optimize production also thanks to renewable power sources and careful resource management respectful of the environment and all stakeholders.

We value environmental sustainability: K-Adriatica will continue doing its part to contribute to creating a better future for everyone.

All this is based on the multitude of solutions that K-Adriatica offers to farmers to win the challenges posed by an ever more competitive market.



OUR MISSION

K-Adriatica's will and aspirations are to create quality from shared ethical values such as responsibility, integrity, efficiency, and innovation, being well aware that as an entrepreneurial entity, we must create value socially and environmentally.

We are committed, daily, to developing sustainable and innovative solutions, that combine, holistically, knowledge on agronomy, plant physiology, metabolism biochemistry, soil, and raw materials chemistry.

Our team of agronomists, researchers, and formulators forge their knowledge into technical knowhow which through the KTS (K-Technical Service) is reshaped into high-quality technical support activities.

We employ high-quality raw materials, primarily of plant origin which are derived from circular productions, making efficient fertilizing units, easily assimilated to guarantee a higher resource efficiency and soil fertility improvement at the same time.

To ensure our products' quality we have introduced MCFP° a strict control protocol based on:

Raw materials: we use only raw materials of superior quality

Composition: we formulate our products maximizing synergies among single components

Formulation: we employ unique production processes, under continuously monitored chemical-physical parameters

Positioning: we test every product on various crops, in various locations to better define the best application protocols



Quality for K-Adriatica means commitment and respect.

Since 1968, every day we have been dedicated to the constant improvement of production processes to ensure the production of quality products with consistently superior characteristics in the pursuit of sustainable agriculture.

Throughout the supply chain we guarantee the safety and well-being of employees, quality and attention in the research and selection of raw materials, and respect and protection for the environment.













bioagri**cer**t⊘







LEGENDA











K-Adriatica's technology brings nutrients to the heart of the plant

KK Technology is the result of K-Adriatica's commitment to R&D and represents an answer to the attempts to optimize the efficiency of foliar and root nutrition. It is an innovative system that, thanks to its activity on cell membrane permeability, contributes to carry nutrients into plant tissues more effectively and promotes their homogeneous distribution throughout the fruit.



NUTRITIONAL SOLUTION KAMAB 26 • DRY-K 30 • PHARMAMIN-M • HENDOSAR • NOFROST • SKICC	Pag. 6
PHYSIOLOGICAL ACTIVATORS eK-lon MAX • RA.AN 13156 • RA.AN L 13186 • NUTRI BIO • GOLD DUST • GOLD DUST 10-10-10 • ERGON ENA 19989 • ACTIMOL 80 • EMOFILL L • HUMIFILL L • HUMIFILL PS • RADICURE L • SCUDO K	Pag. 20
NATURAL RESISTANCE INDUCERS CHITO K 500 • HENDOPHYT PS • LINEA KODENS	Pag. 38
MANAGEMENT OF THE RHIZOSPHERE GEOSAN LINE • BIOACTIVATED LINE	Pag. 48
RIPENING INDUCERS BIO-BRIX • HYDRO KOMBY 40 • POLIFILL PK ALPHA 21-27 • FILL PK PLUS • FILL BRIX SPECIAL PK 6-60 FILL K 40 + 4Mg0	Pag. 60
MESO AND MICROELEMENTS BUTTERFILL K • BUTTERMIX Ca Mg • ZINCAL Mo Ca • NITROCAL L • IDROCAL Mg • AGROMAG 16 COMPLEX AGROMAN 6 L • AGROZIN 6 L • AGROMOL 5 L • AGROBOR 11 L • BORAMIN Mo • AGRORAM 16 COMPLEX SEQUIFILL 6.0 T SS • KOLFER • CLOROFILLA K • K-FERRO • AGROVIT LS • GREEN MIX Z	Pag. 70
FOLIAR FERTILIZERS FILL NPK 21-21-21 • FILL NPK 31-11-11 • FILL NPK 25-20-15 • POLIFILL NPK 5-20-5 • MAGNISOL N20 Mo Zn	Pag. 102
WATER SOLUBLE FERTILIZERS LINEA IDRON • IDRON Ca 10-5-23 + ME • LINEA ACTIVE GOLD • LINEA K-SOL • LINEA FLU-FERT • LINEA BULL LINEA MIKRO	Pag. 112
MICROGRANULES GROSTART NP 8-41 • MICROPHOS Mo Zn NP 10-46 • MICROPHOS NPK 8-33-10 BTC GROSTART CEREALI NP 10-40 • K-SPRINT COMPLEX NPK 6-26-10	Pag. 123
GRANULARS LINEA N-GOOO • N-GOOO NITROSTOP PLUS • LINEA K-FERT • LINEA K-FERT BIO • ORTFRUTKAL	Pag. 128
ACIDIFIERS NITRACID • SYNCRON	Pag. 135
COADJUVANTS KOMBY • TENSIOFILL • TIOAMMON	Pag. 140
SEED TREATMENT SEEDCURE 9L CEREALI	Pag. 146
HYDROPONICS IDROFILL A • IDROFILL B • IDROFILL BASE	Pag. 149
CROP PROTOCOLS	Pag. 153



This is a range of products with unique formulations created by K-Adriatica to win the most demanding challenges posed by modern agriculture to farmers.

Thanks to the work of the Research and Development Unit, which sees the collaboration of experts in chemistry, biochemistry, microbiology, molecular biology, plant physiology and agronomics, the products of the **NUTRITIONAL SOLUTIONS** line offer farmers an effective tool to:

- Solve the most important physiological and nutritional disorders
- Reduce the impact of excessive salinity on crops
- Prevent and reduce the incidence of cracking
- Improve fruit color and sugar content
- Reduce the impact of abiotic and physiological stress on crops

To summarize, the **PROBLEM-SOLUTION** approach recommended by K-Adriatica is as follows:

PROBLEM	SOLUTION
PHYSIOLOGICAL PLANT DISORDERS	KAMAB 26
FRUIT CRACKING AND SHELF-LIFE	DRY-K 30
COLOR AND BRIX	PHARMAMIN-M
SALINITY AND OSMOTIC STRESS	HENDOSAR
COLD DAMAGE	NOFROST
STRESS OF PHYSIOLOGICAL NATURE	SKICC



PHYSIOLOGICAL PLANT DISORDERS

Physiological plant disorders are alterations of the normal plant metabolism which are caused by causal agents of non-infective and non-parasitic nature. They are physiological and the causes are an unbalanced relation between the plant and its environment (climate and soil), adverse atmospheric phenomena or an incorrect agronomic management; the latter is the cause farmers can directly act on.

When it comes to agronomic management, the main cause of physiological plant disorders is an unbalanced fertilization that can cause disorders on the plants, which can show signs of desiccation, necrosis, cracks and darkening tissues.



The main nutritional (physiological) plant disorders are related to unbalanced cation-exchange capacity, in particular between calcium (Ca^{2+}), magnesium (Mg^{2+}), potassium (K^{+}), ammonium (NHa^{+}) and sodium (Na^{+}) that are present in the soil and the plant. A balanced fertilization is essential to avoid nutritional disorders. What is needed is not the absolute quantity of supplied elements but rather the right ratio between the different elements.

Both nutritional deficiency and excess symptoms are often caused not by the absence of the element, but by either an adverse combination of elements in the soil, or in the plant or in both. Calcium nutrition is particularly affected by this imbalance. The lack of calcium can bethe result of the element absence either in the nutritive solution or in the soil (ex.: acidic soils) but it can also be the result of the excessive presence of other nutritional elements (Mg²⁺, K+, NH₄₊, Na+). **Balancing** the cation-exchange capacity in the soil and the plant is fundamental for a calcic nutrition.



KAMAB 26 is K-Adriatica's solution to correct the nutritional imbalance and ensure production quality

KAMAB 26



KAMAB 26 is Adriatica's solution to correct plant physiological disorders attributed to calcium, magnesium and potassium nutritional imbalances.

Thanks to its balanced ratio, KAMAB 26 can solve nutritional imbalances related to physiological plant disorders such as stem necrosis, apical rot, tip burn, bitter pit, fruit cracking and all other nutritional disorders caused by an unbalanced ratio of those three elements. Moreover KAMAB 26 regulates nitrogen absorption processes, limits ammonium accumulation in plant tissues and neutralizes the organic acids in excess. Its rapid absorption by the plant allows excellent results both in preventing and controlling nutritional physiological plant disorders.

The use of **KAMAB 26** in the initial fruit growing phases leads to an improved fruit texture. Its unique formulation favors the production of calcium pectates, which are fundamental to have more resisting cell walls, and it favors the homogeneous calcium distribution within the fruit, which ultimately brings to improved texture and longer shelf-life.

CORRECTS NUTRITIONAL IMBALANCE IMPROVES FRUIT TEXTURE EXTENDS SHELF-LIFE

COMPOSITION		
Total nitrogen (N)		10%
Nitric nitrogen (N)		10%
Potassium oxide (K₂O)	Soluble in water	5%
Calcium oxide (CaO)	Soluble in water	10%
Magnesium oxide (MgO)	Soluble in water	2%
Boron (B)	Soluble in water	0,1%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	7,4	
Conductivity E.C. µS/cm (1‰)	1210	
Density (g/cm³)	1,5	
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 6 - 12 Kg

CROP	NUTRITIONAL DISORDER	APPLICATION TIME	DOSE/HECTARE*
Grapes	Stem necrosis, grape berry drop	Preventative: 3-4 applications from fruit set to veraison (change of color); if needed, repeat the application 10-15 days before harvesting or upon the occurrence of predisposing conditions Curative: at the appearance of the first symptoms; to be repeated every 7-10 days until the symptoms disappear	Preventative: 4 kg/ha Curative: 6 kg/ha
Pome fruits (apple, pear, quince)	Bitter pit, post-harvest rotting, superficial scald	2-3 applications every 10-12 days, from fruit set to fruit diameter up to 40 mm	4-6 Kg
Kiwifruit	Fruit softening, shelf-life	3-4 applications every 10-12 days, from flowering to fruit diameter up to 40 mm	4-6 Kg
Stone fruits (peach, nectarine, apricot, cherry, plum)	Internal flesh browning, superficial scald, shelf-life	2-3 applications, from fruit-set to veraison (change of color)	4-6 Kg
Strawberries	Tip burn, calix necrosis, shelf life	2-3 applications from fruit-set, every 10-12 days	4-6 Kg
Mango, avocado	Flower drop, fruit drop	3-4 applications: before flowering, beginning of flowering, full flowering, when fruits are at 10% of the final dimension	4-6 Kg
Small fruits (blueberry, raspberry, blackberry, currant)	IInternal flesh browning, superficial scald, shelf-life	3-4 applications, from pre-flowering every 10-12 days	4-6 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	Apical rot	2-3 applications, from pre-flowering every 10-15 days	4-6 Kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach, broccoli)	Tip burn	3 applications: 1° application: 7 days after transplanting 2° application: 7-10 days after the previous one 3° application: 8 days before harvest	4-6 Kg
All crops	Fruit texture, shelf-life, fruit cracking	2-3 applications, every 10-12 days, from fruit-set to fruit diameter up to 40 mm	4-6 Kg
All crops	Better flowering	1-2 applications, pre-flowering	4-6 Kg

WARNING: Never mix in the same tank fertilizers containing phosphorus and/or sulfates with fertilizers containing calcium. In presence of irrigation water containing high phosphorus levels it is necessary to add an acidifier before using fertilizers containing calcium.

The product can be mixed with other products exception made for those containing copper, sulfur, mineral oil and emulsions. It is always advisable to carry out small tests before proceeding with mixing.

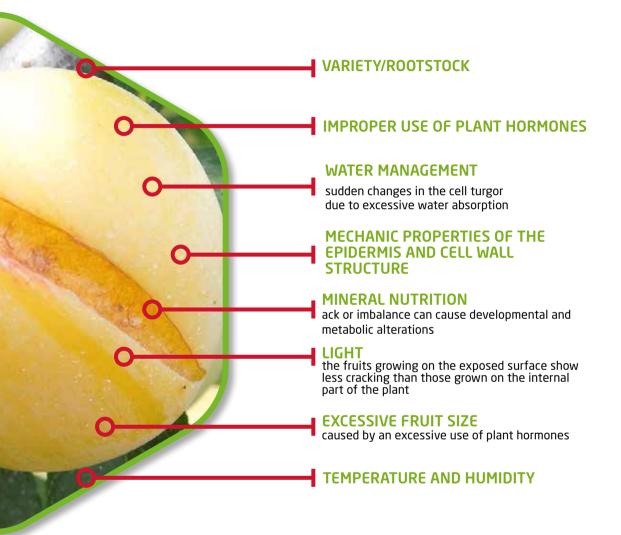
^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



FRUIT CRACKING AND SHELF-LIFE

Fruit cracking, or breaking, is a physiological plant disorder that normally affects fruit at development and maturity, when higher quantities of water and sugar accumulate in the fruit together with the weakening of the **peel elasticity**.

Cracking is a complex phenomenon which is caused by various factors:



This physiological plant disorder leads to product depreciation and sometimes to the product being rejected by the market. In the worst cases rotting agents settle inside the cracks making it impossible for the grower to sell it to processing industries.

By limiting the effects that various concurrent causes have on cracking, it is possible to obtain the reduction of the cracking incidence.

From the nutritional stand point, **calcium** has a fundamental role: as one of the key components in the structure of the cell walls it increases the mechanical resistance of the tissues and contributes to reduce fruit cracking.



DRY-K 30 is K-Adriatica's solution to prevent and reduce the incidence of cracking and for a longer shelf life

DRY-K 30



DRY-K 30 is a high purity and readily assimilable product. It determines the strengthening of the cell walls conferring a higher mechanical resistance to damages caused by biotic and abiotic agents.

Regular applications of **DRY-K 30** are recommended to prevent "fruit cracking", which can happen in case of water excess (abundant rainfall in particular), temperature changes and an improper use of plant growth regulators. Its peculiar composition confers a high cicatrizing power in case of possible microiniuries. which can be both the starting point of cracking and growth of pathogenic agents. The presence of polyglucosamines in the formulation can activate the natural defences of the plant and allows the formation of a protective biofilm on the treated parts which reduces the incidence of fungal/bacterial infections, both in the field and, particularly, in post-harvest phases.

Its application in the pre-harvest phase prevents weight loss, regulates the evapo-transpiration processes and improves preservation, which is particularly important for products subject to refrigeration.

DRY-K 30 improves fruit organoleptic parameters (increase of dry matter and Brix) in value and time (longer shelf-life).

INCREASES TISSUES MECHANICAL RESISTANCE

REDUCES THE INCIDENCE OF CRACKING IMPROVES PLANT WOUND CICATRIZATION **HELPS TO PROLONG SHELF-LIFE**

COMPOSITION		
Total nitrogen (N)		10%
Nitric nitrogen (N)		10%
Potassium oxide (K ₂ O)	Soluble in water	8%
Calcium oxide (CaO)	Soluble in water	12%
Total sulfuric trioxide (SO₃)		5%

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)	6,9	
Conductivity E.C. µS/cm (1‰)	1450	
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 2 Kg

CROP	APPLICATION TIME	DOSE/ HECTARE*
Table grapes ++	3 applications: bunch pre-closure, veraison (change of color), 10-15 days before harvest	6 kg
Wine grapes	1 application: 10-15 days before harvest	4-6 Kg
Stone fruits (peach, nectarine, apricot, cherry, plum)++	2 applications: veraison (change of color), 10-15 days before harvest	4-6 Kg
Kiwifruit	3 applications: fruit development , veraison (change of color), 15-20 days before harvest	4-6 Kg
Pome fruits (apple, pear, quince)++	1 application: 10-15 days before harvest	4-6 Kg
Citrus (orange, lemon, tangerine, clementine, bergamot) ++	2 applications: veraison (change of color), 10-15 days before harvest	4-6 Kg
Strawberries	7 days before harvest, to be repeated every 7-10 days in accordance with the progress of maturity.	4-6 Kg
Small fruits (blueberry, raspberry, blackberry, currant)	7 days before harvest, to be repeated every 7-10 days in accordance with the progress of maturity.	4-6 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin) ++	1 application: veraison (change of color)	4-6 Kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach, broccoli)	1 application: 5-7 days before harvest	4-6 Kg

NOTE: It is recommended to use a maximum of 300 L of water per hectare per treatment.

WARNING: Never mix in the same tank fertilizers containing phosphorus and/or sulfates with fertilizers containing calcium. In presence of irrigation water containing high phosphorus levels it is necessary to add an acidifier before using fertilizers containing calcium.

The product can be mixed with other products exception made for those containing copper, sulfur, mineral oil and emulsions.

It is always advisable to carry out small tests before proceeding with mixing.

^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs.



⁺⁺ To prevent and reduce the incidence of cracking, it is highly recommended to use KAMAB 26 in the fruit growing phases.

COLORING AND BRIX

Color, sweetness and crispness are the characteristics required by consumers for quality production. While sweetness and crispness can be achieved thanks to a careful agronomic management, **color improvement** is difficult to attain.

This challenge gets even harder if the new proposed varieties are not always suitable for cultivated areas. Moreover, the effects of climate change, through a progressive rise in temperature, makes the target – a uniform and intense coloring – even tougher to accomplish.

There are numerous factors influencing the color development in the fruit and some of them cannot even be measured.

A careful agronomic management can help reduce the effects of environmental conditions on the color development. From a nutritional standpoint, the use of **inducers of ripening** can actually improve coloring, thus improving production's quality standards.

VARIETY/ROOTSTOCK

TEMPERATURE

PRODUCTIVE LOADING

LIGHT -

VIRUSES:

- CLRV (Cherry Leaf Roll Virus)
- GFLV (Grapevine Fanleaf Virus)
- GLRaV (Grapevine Leaf Roll-associated Virus)

ELICITORS PHITOHORMONES:

- Ethylene, ABA
- Jasmonic Acid
- Brassinosteroids

NUTRIENTS:

- phosphorus
- boron
- molybdenum
- zinc, magnesium
- potassium

WATER STRESS



PHARMAMIN-M is K-Adriatica's solution to stimulate ripening, to improve coloring and to increase the BRIX degree

PHARMAMIN-M



PHARMAMIN-M promotes the ripening process. Thanks to its high purity and immediate uptake, PHARMAMIN-M rebalances the normal physiological processes in the plant cell and stimulates the natural mechanisms that are involved in ripening. Its formulation, enriched with specific ripening precursors, not only favors uniform coloring and the rise of fruit sugar content (BRIX), but also has a direct effect in solving the main nutritional physiological plant disorders.

PHARMAMIN-M improves fruit coloring by supplying anthocyanins and flavonoids biosynthesis precursors (the coloring pigments). It gives fruit a better taste and fragrance and does not alter the pulp texture and shelf-life.

PHARMAMIN-M composition aims at obtaining the following agronomic results:

- Fruit coloring and rise of sugar level (thanks to some specific amino acids)
- Improved taste and aroma and more uniform fruit size
- Higher resistance of the fruits to manipulation, storage and transportation

IMPROVES RIPENING PROMOTES COLOR UNIFORMITY INCREASES BRIX LEVELS

COMPOSITION		
Ossido di Calcio (CaO)	water-soluble	8,4%
Ossido di Magnesio (MgO)	water-soluble	1,6%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	3,8	
Conductivity E.C. µS/cm (1‰) 901		
Density (g/cm³) 1,4		
WAY OF USE	₽	
	FOLIAR	

PACKAGING: 6 - 12 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes	2 applications every 7-10 days starting from pre-veraison (change of color)	6-8 kg
Stone fruits (peach, nectarine, apricot, cherry, plum)	2 applications every 7-10 days starting from pre-veraison (change of color)	6-8 kg
Pome fruits (apple, pear, quince)	2 applications every 7-10 days starting from pre-veraison (change of color)	6-8 kg
Kiwifruit	2 applications every 7-10 days starting from pre-veraison (change of color)	6-8 kg
Citrus (orange, lemon, tangerine, clementine, bergamot)	2 applications every 7-10 days starting from pre-veraison (change of color)	6-8 kg
Strawberries e Small fruits (blueberry, raspberry, blackberry, currant)	2 applications every 7-10 days starting from pre-veraison (change of color)	4-6 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	2 applications: fruit enlargement and pre-veraison (change of color)	4-6 kg

NOTE: The activity of **PHARMAMIN-M** is enhanced by its combination with eK-**lon MAX**

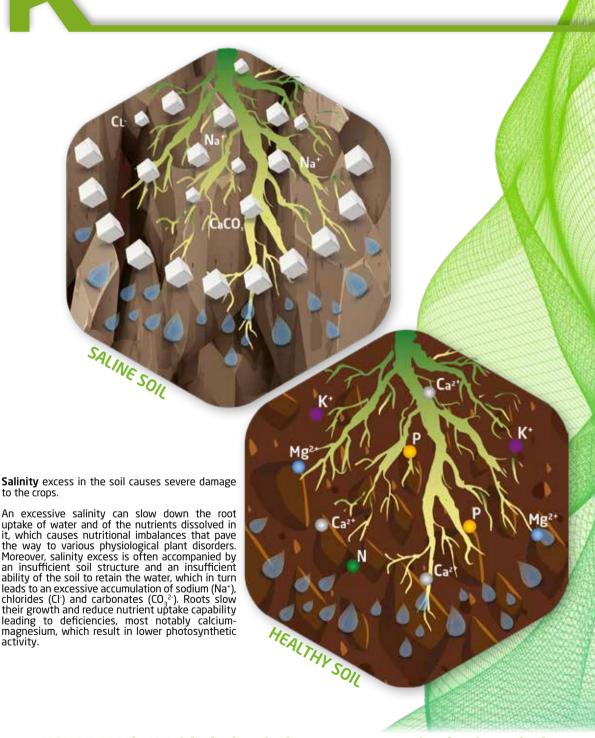
WARNING: Never mix in the same tank fertilizers containing phosphorus and/or sulfates with fertilizers containing calcium. In presence of irrigation water containing high phosphorus levels it is necessary to add an acidifier before using fertilizers containing calcium.

The product can be mixed with other products exception made for those containing copper, sulfur, mineral oil and emulsions. It is always advisable to carry out small tests before proceeding with mixing.

^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific illmate conditions.



SALINITY EXCESS AND OSMOTIC STRESS



HENDOSAR is K-Adriatica's solution to secure production by reducing the impact of osmotic stress associated with excessive salinity



HENDOSAR



HENDOSAR is specifically created to manage and reduce the effects of excessive salinity in the soil and in the plants. Acting rapidly on the soil-root-plant system, **HENDOSAR** creates an highly favorable environment on all crops allowing its use in any phenological phase, even under the harshest agronomic conditions.

HENDOSAR improves soil structure thanks to a specific formulation that provides an optimal calcium and magnesium ratio (4-6 parts of calcium for 1 part of magnesium). Calcium and magnesium replace sodium in the exchange complex (argillaceous colloids), so that sodium becomes soluble and can be washed away. This creates a favourable environment in the rhizosphere that "protects" the roots and sustains its nutrients uptake, even in case of high salinity. This allows the plant to overcome the interruptions in the vegetative growth that are linked to salinity excess, to rebalance the nutritional disorders and to improve the photosynthetic activity securing production and quality.

IMPROVES PLANT TOLERANCE TO SALINITY IMPROVES SOIL STRUCTURE

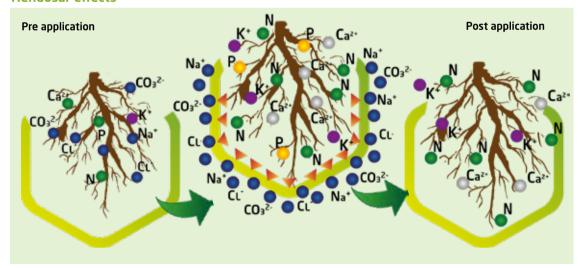
COMPOSITION		
Total nitrogen (N)		9%
Nitric nitrogen (N)		9%
Potassium oxide (K₂O)	Soluble in water	6%
Calcium oxide (CaO)	Soluble in water	10%
Magnesium oxide (MgO)	Soluble in water	2%
Manganese (Mn)	Chelated with EDTA	0,015%
Zinc (Zn)	Chelated with EDTA	0,015%

PHYSICO-CHEMICAL CHARACTERISTICS	
LIQUID	
pH (sol 1%)	7,1
Conductivity E.C. µS/cm (1‰)	1120
Density (g/cm³)	1,50
WAY OF USE	716
	FERTIGATION

PACKAGING: 20 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
All crops	Sandy soils: 2-3 applications	20-40 Kg
	Clay soils: 2 applications	40-60 Kg

Hendosar effects



WARNING: Never mix in the same tank fertilizers containing phosphorus and/or sulfates with fertilizers containing calcium. In presence of irrigation water containing high phosphorus levels it is necessary to add an acidifier before using fertilizers containing calcium.

The product can be mixed with other products exception made for those containing copper, sulfur, mineral oil and emulsions. It is always advisable to carry out small tests before proceeding with mixing.

^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



LATE FROST AND COLD-RELATED DAMAGE

The rise in average temperature caused by climate change brings agriculture another challenge: late frost or returns of cold weather.

A late frost can cause damage of various extent according to different factors:

- Phenological phase of the plant (i.e.: dormancy, flowering ..)
- Species and plant variety (early or late)
- Nutritional state, higher concentration of nitrates leads to higher sensibility to cold weather
- Prolonged persistence of freezing temperatures

The damage is caused by necrosis and death of herbaceous tissues, which are in turn caused by cell collapse after being exposed to negative temperatures for a sufficiently long period. The length of time varies according to the target organs (buds, flowers and inflorescence, fruitlets in increasing sensibility order).



NOFROST is K-Adriatica's solution to reduce damage from late frost and cold weather returns



NOFROST

The **NOFROST** formulation is designed to prevent and reduce damage related to sudden drops in temperature. Late frost often cause serious damage to buds, to early developed leaves and to flowers. With temperatures dropping to -3°C/-4°C, the damage can be seen on nearly 90% of flowers if it happens between inflorescence emergence and the end of flowering.

With its specific antifreeze activity, **NOFROST** helps the plant to limit the damage caused by cold weather. Its particular formulation combines a cryoprotectant with a mix of microelements conveyed by an organic matrix, thus increasing the resistance threshold by lowering the sap freezing point. This prevents the formation of ice crystals within the cells. The presence of colloid compounds favours the formation of a thin protective layer which improves the protection of the treated parts.

REDUCES COLD WEATHER RETURN-RELATED DAMAGE

REDUCES LATE FROST-RELATED DAMAGE

COMPOSITION		
Magnesium oxide (MgO)	Soluble in water	2%
Boron (B)	Soluble in water	0,3%
Iron (Fe)	Soluble in water	2%
Zinc (Zn)	Soluble in water	0,8%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	3,1	
Conductivity E.C. µS/cm (1‰)	390	
Density (g/cm³)	1,16	
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 6-25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
All crops	In anticipation of drop in temperature: 2-3 applications, to be REPEATED every 2-3 days, with 3 kg/ha Right before the temperature drop: ONLY ONE application, 18-20 hours before the drop of temperature, with 6 kg/ha	3-6 kg da applicare con 600-1000 L di acqua per ha



NOTE: In the days following a late frost, apply SKICC + RA.AN L 13186 to help the plant overcome the stress and reactivate the metabolic pathways.

WARNING: The efficacy of the product is influenced by the length of time at low temperatures. Temperatures as low as -4°C to -6° C for a short period of time (1 hour max) can be easily managed by plants which have been preventatively treated. Periods of 4-6 hours at temperatures close to freezing (-2° C) can be damaging even on treated plants.

^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



STRESS OF PHYSIOLOGICAL NATURE



Adriatica

SKICC



SKICC is the nutritional solution that offers support and protection to extensive, industrial and horticultural crops under stress conditions. Its formulation, developed to activate the plant natural defences, preserves the cellular balance (homeostasis) thanks to its activity at a molecular level. This allows the immediate restoration of metabolic activities warranting the crop harvest.

SKICC is immediately absorbed by the plant (two hours after application) and, thanks to the absence of chlorides, sulfates and carbonates, is not phytotoxic.

When applied under stressful conditions and at all phenological phases, SKICC increases the resistance level of the crop.

SKICC reduces phytotoxicity when applied in combination with herbicides and crop protection products.

SKICC is the answer to the need to limit the negative effects caused by stress conditions on crop production.

PREVENTS GROWTH INTERRUPTION DUE TO HERBICIDE AND OTHER CROP

PROTECTION TREATMENTS

HELPS OVERCOMING TRANSPLANTING-RELATED STRESS

HELPS PLANTS AND CROPS TO OVERCOME STRESS-RELATED CONDITIONS

COMPOSITION		
Total nitrogen (N)		9%
Nitric nitrogen (N)		9%
Potassium oxide (K ₂ O)	Soluble in water	6%
Calcium oxide (CaO)	Soluble in water	10%
Boron (B)	Soluble in water	0,1%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	7,2	
Conductivity E.C. µS/cm (1‰)	1150	
Density (g/cm³)	1,5	
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 6 - 25 Kg - COMBO PACK

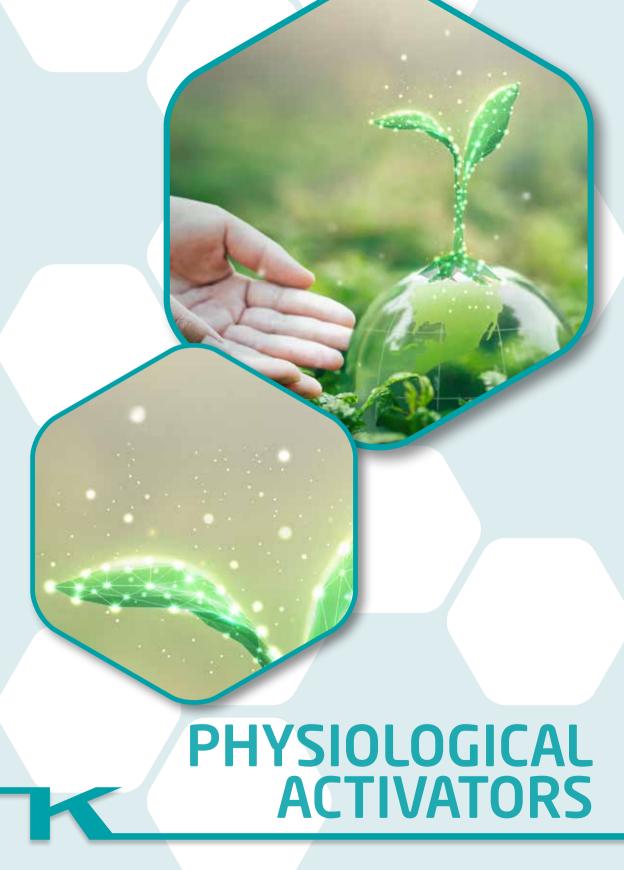
CROP	APPLICATION TIME	DOSE/HECTARE*
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	Post-transplanting, pre-flowering, veraison (change of color), combined with phytosanitary applications	4-6 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	Post-transplanting, pre-flowering, veraison (change of color), combined with phytosanitary applications	4-6 kg
Other vegetables (broccoli, cabbage, cauliflower, onion, garlic, leek, fennel, carrot, potato)	Post-transplanting and during vegetative development combined with phytosanitary applications	6-8 kg
Corn, sunflower	Post-transplanting and during vegetative development combined with phytosanitary applications	6-8 kg
Rice, wheat, barley	Stem elongation combined with post-emergence herbicide treatment, booting phase combined with fungicide applications	4-6 kg
Rapeseed	Post-transplanting and during vegetative development combined with phytosanitary applications	4-6 kg
Beets	3-6 leaf combined with post-emergence herbicide applications	6-8 kg
Sugarcane	Stem elongation combined with post-emergence herbicide treatment, booting phase combined with fungicide applications	6-8 kg
Soybeans	Pre-flowering and fruit set combined with insecticide applications	6-8 kg
Industrial tomato	Leaf canopy meets between the rows, combined with post-emergence herbicide applications	4-6 kg
Potato	Post-transplanting and during vegetative development combined with phytosanitary applications	4-6 kg
Cotton	Vegetative development combined with post-emergence herbicide applications	4-6 kg

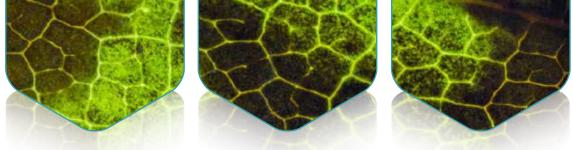
NOTE: The activity of **SKICC** is enhanced when combined with **RA.AN L 13186**. A Combo Pack with the 2 products together is now available.

WARNING: Never mix in the same tank fertilizers containing phosphorus and/or sulfates with fertilizers containing calcium. In presence of irrigation water containing high phosphorus levels it is necessary to add an acidifier before using fertilizers containing calcium. The product can be mixed with other products exception made for those containing copper, sulfur, mineral oil and emulsions. It is always advisable to carry out small tests before proceeding with mixing.

^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.







This line of products helps to increase crop **PRODUCTIVITY** and harvest **QUALITY**.

The physiological activators are based on protein hydrolysates, seaweed extracts and humic substances. Not only are they a source of important nutritional elements, but they also promote various cellular processes and stimulate the plant's metabolism.

At foliar level physiological activators:

- increase the photosynthetic activity and the production of dry matter, also under lower light intensity
- are involved in and also regulate the metabolic processes, thanks to their auxin-like activity
- improve product organoleptic characteristics, such as color, sugar content, aroma and consistency
- induce a higher disease resistance
- guarantee higher yields

When applied to the soil physiological activators:

- improve the chemical, physical and microbiological characteristics
- improve plant root development and activity
- regenerate the treated soils and reduce their salinity
- guarantee a better balance between vegetative and reproductive phases
- capture and channel the nutritional elements already present in the soil, thus improving root uptake

K-Adriatica's line of PHYSIOLOGICAL ACTIVATORS includes:

eK-lon MAX
RA.AN 13156
RA.AN L 13186
NUTRI BIO
GOLD DUST
GOLD DUST 10-10-10
ERGON
ENA 19989
ACTIMOL 80
EMOFILL L
HUMIFILL L
HUMIFILL L
SCUDO K



BENEFITS OF SEAWEED EXTRACTS

Farmers are increasingly aware of the benefits that the application of **algae extracts** can have on crops. Numerous experimental evidences have, over the years, shown that applications of seaweed extracts have positive effects on plant growth, health status and crop yield.

Adriatica

ġ

Increased product quality

- Increased fruit weight, fruit thickness and texture of the pulp
- Vivid color and increased content of minerals
- Increased vitamin C, TSS, total phenols, anthocyanins, total protein, fructose and sucrose
- Increased shelf life, reduced of fruit browning and post-harvest infestation

Improving the plant phenotype

- Starter effect on seedlings
- · Improved root growth and density
- Increased chlorophyll content, photosynthetic rate and stomatal conductance
- Increased number of leaves, height and vigor of the plant
- Increased number of flowers per plant
- Increased number of fruits per plant
- · Prolongation of flowering and fruiting

Activation of metabolic pathways

- Increased expression of the phytohormone genes (GA, IAA and CK)
- Modulation of pathways of defense signaling (SA, IA and ET)
- Modulation of ABA-mediated signaling
- Increased expression of flowering-related genes
- Increased expression of root transport genes

Increased stress tolerance

- Induction of tolerance to biotic stresses:
 - insect pests, nematodes
 microbial pathogens
 (fungal, bacterial and viral)
- Induction of tolerance to abiotic stresses (salinity, drought, freezing)
- Increased resilience to transplant shock

Better nutrient acquisition

- Alteration of root structure
- Efficient use of soil water
- Increased content of micro/macro minerals In roots and aerial tissues of plants
- Promotion of rooting in cutting plants
- Increased nutrient utilization efficiency
- Increased uptake of macro and micro nutrients

Rhizosphere enhancement

- Improved soil structure and aeration
- Increased diversity α and β of soil microorganisms and roots
- Increased population of beneficial microorganisms
- Increased enzyme activity (hydrogenase, invertase, urease, proteinase, polyphenol oxidase and phosphatase)

Seaweed extracts contain a plethora of substances which are mostly organic, but trace levels of inorganic nutrient elements are also present. Fractionation of seaweed extracts into their components and their respective bioassays, however, has not yielded favorable growth effects. Only the whole seaweed extracts have been consistently proven to be very effective, which highlights the role of multiple components and their complex interactive effects on plant growth processes.





eK-lon MAX is an extract obtained exclusively from a mixture of brown algae.

Thanks to the cold extraction process, which preserves all its bioactive compounds, **eK-lon MAX** can favorably regulate the plant main physiological processes. **eK-lon MAX** is indeed a source of polysaccharides, alginates, phlorotannins, polyamines and plant growth regulators that trigger, in the treated plants, tissue growth, more intense flowering, fertilization and fruit set and it can elicit plant natural defences.

Regular applications of eK-lon MAX promote a balanced plant growth, improve fruit size, colour and sugar content, and extend the shelf-life. Moreover, **eK-lon MAX** stimulates the development of the root system, improving plant nutrients' uptake and resistance against water stress conditions.

IMPROVES FRUIT SIZE STIMULATES ROOT DEVELOPMENT PROMOTES A BALANCED PLANT GROWTH IMPROVES COLOUR AND SUGAR CONTENT

COMPOSITION	w/w
Organic Matter	1,84 %
Total Organic Carbon (C)	1,03 %
Total Nitrogen (N)	0,12 %
Total Phosphorus Pentoxide (P₂O₅)	0,02 %
Total Potassium Oxide (K₂O)	0,25 %
Total Calcium Oxide (CaO)	0,06 %
Total Magnesium Oxide (MgO)	0,04 %
Total Sulphur Trioxide (SO₃)	0,06 %
Algnic Acid	0,87 %

PHYSICO-CHEMICAL CHARACTERISTICS			
LIQUID			
pH (sol 1%)	H (sol 1%) 4,4		
Conductivity E.C. micS/cm	15		
Density (g/cm³)		1 (±0,05)	
WAY OF USE	Ø	747	
	FOLIAR	FERTIGATION	

PACKAGING: 5-25 Kg

CROP APPLICATION TIME		DOSE/HECTARE*	
CROP	APPLICATION TIME	FOLIAR	FERTIGATION
Grapes, Olive tree	3 applications: buds of 5-10 cm, pre-flowering, grape of 4-6 mm diameter	300-400 g/hectolitre	4-8 kg
Kiwifruit	3-4 applications: from pre-flowering, to be repeated every 15 days	300-400 g/hectolitre	4-8 kg
Citrus (orange, lemon, tangerine, clementine, bergamot)	3-4 trattamenti: a partire dalla pre-fioritura, ripetere ad intervalli da 10 a 14 giorni	300-400 g/hectolitre	4-8 kg
Pome fruits (apple, pear, quince)	Pre-flowering, petals' fall, fruit enlargement starting from 20 mm diameter: applications every 10-15 days	300-400 g/hectolitre	4-8 kg
Stone fruits (peach, nectarine, apricot, cherry, plum)	4-6 applications: from flowering to veraison	300-400 g/hectolitre	4-8 kg
Strawberries	Soak the seedlings in a 1:100 solution before transplanting From the beginning of flowering: 2-3 applications at intervals of 15-20 days	300-400 g/hectolitre	4-8 kg
Small fruits (blueberry, raspberry, blackberry, currant)	From pre-flowering, 3-4 applications to be repeated every 7-10 days giorni	300-400 g/hectolitre	4-8 kg
Nut fruits	From flowering of the female inflorescence: 3-5 applications every 15 days5 giorni	300-400 g/hectolitre	4-8 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin), Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	In the nursery: apply on the seedlings once a week for 2-3 times; soak the seedling tray in a 1:100 solution before transplanting. In the field: starting from 15 days after the transplanting, 2-4 applications at intervals of 15 days	200-300 g/hectolitre	3-6 kg
Other vegetables (broccoli, cabbage, cauliflower, onion, garlic, leek, fennel, carrot, potato)	4 treatments: at 3 to 5 leaves, pre-bloom, full bloom and at pod development	200-300 g/hectolitre	3-6 kg
Bean, lentil, pea, soybeans	4 applications: 3 to 5 leaves, pre-flowering, full flowering and at pod's development	200-300 g/hectolitre	3-6 kg

^{*}The choice of dosage is subject to various factors and can be varied as needed. All interventions can be repeated according to different crop needs. For proper application under specific soil and climatic and crop conditions, please consult Our Technical Service.

The above doses refer to the use of Spray Volumes of 1000 L/ha (Normal Volumes).

In the case of different volumes, for use with low-volume or volume recovery sprayers, where, for proper wetting of the vegetation less water than the Normal Volumes (NPVs) may be sufficient.





RA.AN 13156



RA.AN 13156 is a 100% brown (Ascophyllum nodosum) seaweed concentrate, obtained with a COLD EXTRACTION process and subsequent condensation of the extracted liquid. With this particular extracting process RA.AN 13156 preserves all the seaweed bioactive components (amino acids, carbohydrates, vitamins, hormone-like natural substances).

Regular RA.AN 13156 applications:

- Improve crop hormone balance and nutritional balance
- Improve photosynthetic efficiency for greater yield
- Enable a stronger balance between the vegetative and the reproductive phases
- Have a direct effect on fruit size and uniformity, impacting productivity
- İmprove products' quality parameters (sugar content, colour, firmness, shelf-life)

Moreover, the high mannitol and Betainescontents trigger crop resistance to biotic and abiotic adversities. Regular applications of **RA.AN 13156** throughout the crop cycle improve qualitative and quantitative results.

Here the most important **RA.AN 13156**'s components:

- Amino acids > 1,3 %
- Alginic acid > 10%
- Mannitol 4.7%
- Gibberellins and Cytokinins >300 ppm

ANTI-STRESS ACTIVITY BIOSTIMULATING ACTIVITY IMPROVES COLOUR AND SUGAR CONTENT

COMPOSITION	
Potassium oxide (K₂O)	19%
Organic nitrogen (N)	1%
Betaines	0,1%
Mannitol	4%
Organic Carbon (C), biological origin	20%

PHYSICO-CHEMICAL CHARACTERISTICS		
FLAKES		
pH (sol 1%)		9,4
Conductivity E.C. µS/cm (1‰) 700		700
WAY OF USE	₽	747
Will of obe	FOLIAR	FERTIGATION

PACKAGING: 1 - 5 Kg

- COOP		DOSE/HECTARE*	
CROP	APPLICATION TIME		FERTIGATION
Grapes and Kiwifruit	Budding, inflorescence clearly visible, pre-flowering, fruit set, berry/fruit enlargement, veraison (change of color), post-harvest. Whenever it's necessary to overcome a stressful period.	0,5-1 kg	5-10 kg
Citrus (orange, lemon, tangerine, clementine, bergamot)	Pre-flowering, post-fruit set, fruit enlargement, veraison (change of color). Whenever it's necessary to overcome a stressful period.	0,5-1 kg	5-10 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	Budding, fruit enlargement, post-harvest. Whenever it's necessary to overcome a stressful period.	0,5-1 kg	5-10 kg
Olive, Walnut, Hazelnut	Pre-flowering, post-fruit set, fruit enlargement, post-harvest. Whenever it's necessary to overcome a stressful period.	0,5-1 kg	5-10 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	Post-transplanting/vegetative restart, pre- and post-flowering, veraison (change of color).	0,5-1 kg	5-10 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	Post-transplanting, pre- and post-flowering, pre-veraison (change of color). Whenever it's necessary to overcome a stressful period.	0,5-1 kg	5-10 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	From 4th true leaf to pre-harvest, every two weeks.	0,5-1 kg	5-10 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases. Whenever a prompt vegetative restart is required.	0,5-1 kg	5-10 kg
Flowers and Ornamentals	After transplanting, every 2-3 weeks.	0,5-1 kg	5-10 kg
Seedbeds and Nurseries	From early vegetative phases to crop cycle completion.	0,5 kg	5 kg

RA.AN L 13186





RA.AN L 13186 is a Ascophyllum nodosum seaweed extract nutritional solution rich in nutrients, vitamins, polysaccharides and natural growth promoters. All these compounds are not deteriorated by the cold extraction process to which the seaweed is subject and are combined with hydrolyzed malt rootlets which bring a unique composition in amino acids, peptides, enzymes, proteins, oligosaccharides and nucleic acids. This organic complex increases the natural biostimulating effects of seaweed and assures high yield and superior quality even under stressed conditions.

RA.AN L 13186, being a 100% origin seaweed product, with an acidic pH value, ideal for foliar uptake, is the best solution to promote:

- plant hormone and nutritional balance
- reduction of post-transplanting stress and activation of all growth mechanisms
- improved flowering and fruit-set
- increase in size, earlier ripening, longer shelf-life
- improved sugar content and quality parameters
- improved crop resistance to abiotic stresses

Moreover, regular RA.AN L 13186 applications:

- trigger elicitors' production
- protect the plant thanks to a persistent layer of product which acts as a protectant film
- repel sucking pests

BALANCES PLANT GROWTH IMPROVES NUTRIENTS' UPTAKE OPTIMIZES FLOWERING AND FRUIT SET REDUCES STRESS NEGATIVE EFFECTS

COMPOSITION	
Total nitrogen (N)	1%
Organic soluble nitrogen (N)	1%
Organic Carbon (C), biological origin	10%

PHYSICO-CHEMICAL CHARACTERISTICS	
LIQUID	
pH (sol 1%) 4,2	
Conductivity E.C. µS/cm (1‰)	
Density (g/cm³) 1,09	
WAY OF USE	Ø
	FOLIAR

PACKAGING: 1 - 5 - 10 kg - COMBO PACK

CROP	APPLICATION TIME	DOSE/ HECTARE*
Grapes and Kiwifruit	2-3 applications from vegetative restart to fruit enlargement, every 8-10 days. Repeat 1-2 applications at post-harvest.	1-2 kg
Citrus (orange, lemon, tangerine, clementine, bergamot)	Whenever it's necessary to overcome a stressful period.	1-2 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	At vegetative restart, pre- and post-flowering, veraison (change of color). Whenever it's necessary to overcome a stressful period.	1-2 kg
Olive, Walnut, Hazelnut	2-3 applications from vegetative restart to fruit enlargement, every 10-12 days. Repeat 1-2 applications at post-harvest. Whenever it's necessary to overcome a stressful period.	1-2 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	Whenever it's necessary to overcome a stressful period.	1-2 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	At post-transplanting, pre- and post-flowering, pre-veraison (change of color). Whenever it's necessary to overcome a stressful period.	1-2 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	At early vegetative phases or whenever a prompt vegetative restart is required	1-2 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases or whenever a prompt vegetative restart is required.	1-2 kg
Flowers and Ornamentals	After transplanting, applications every 2-3 weeks	1-2 kg
Seedbeds and Nurseries	From early vegetative phases to crop cycle completion	1 kg

NOTE: The anti-stress activity of **RA.AN L 13186** is enhanced by its combination with **SKICC**. A Combo Pack with the 2 products together is now available. **RA.AN L 13186** can be also used in fertigation with the 10-12 kg/ha dose, to be repeated every 10-15 days.

*The choice of the dose is subordinated to various factors and can be varied when necessary.

All applications can be repeated in relation to the different crop needs.

You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



THE ROLE OF AMINO ACIDS IN PLANT PHYSIOLOGY

Protein hydrolysates, among the key constituents of K-Adriatica **PHYSIOLOGICAL ACTIVATORS**, are an important category of biostimulants capable of increasing plant growth and crop yield, especially in environmentally stressed conditions.

They are a mix of either animal or plant or both amino acids and soluble peptides, which are generally obtained with either chemical or enzymatic or mixed hydrolysis.

The stronger the hydrolysis, the greater the quantity of amino acids obtained compared to the peptides (and oligopeptides) which, although characterized by a greater biostimulant activity, are less assimilable than amino acids.

Therefore, a greater quantity of amino acids - compared to other components - is equivalent to higher quality of protein hydrolysate. Amino acids are indeed more efficient in regulating plants' physiological processes. The chart shows the role of amino acids in plant physiology.

PHYSIOLOGICAL PROCESS	AMINO ACIDS INVOLVED
Photosynthesis stimulation	Alanine, Glutamic Acid, Glycine, Lysine, Proline
Stomata opening	Alanine, Glutamic Acid, Methionine, Lysine, Proline
Anti-oxidant activity	Cysteine, Histidine, Lysine, Methionine, Tryptophan
Complexing activity	Aspartic Acid, Glutamic Acid, Glycine
Pollen germination	Glutamic Acid, Proline
Aroma precursors	Alanine, Isoleucine, Leucine, Valine
Hormone precursors	Methionine, Tryptophan
Color precursors	Phenylalanine
Taste precursors	Alanine, Arginine, Glycine, Proline
Osmosis regulation	Proline
Stress resistance	Glutamic Acid, Cysteine, Lysine, Proline, Serine, Valine
Nitrogen supply	Aspartic Acid, Glutamic Acid, Arginine, Proline, Asparagine
Root development	Arginine, Methionine
DNA synthesis	Glutamine, Aspartic Acid
Protein synthesis	Glutamine





NUTRI BIO is a liquid fertilizer of natural origin.

It is a balanced and optimized mix of peptides and free amino acids and is characterized by a rapid absorption and systemic transfer in all the parts of the plant.

The product is used throughout the whole developing cycle of the crops and particularly in the most delicate phenological phases. It is effective against stresses of abiotic nature and positively affects nutrients' absorption, productive performance and fruit quality.

If applied in fertigation this product stimulates an intense precocious activity that can help overcome the post-transplanting stress and wherever a fast vegetative recovery is needed.

NUTRI BIO improves the soil's biological characteristics as it favours the development of beneficial microflora and microflauna.

IMPROVES PLANT NUTRITIONAL CONDITIONS IMPROVES SOIL BIOLOGICAL CHARACTERISTICS HELPS PLANTS TO OVERCOME ABIOTIC STRESS

COMPOSITION	
Total nitrogen (N)	8%
Organic nitrogen (N)	8%
Organic carbon (C) of biological origin	25%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%) 6,9		
Conducibility E.C. µS/cm (1‰)		325
Density (g/cm³)		1,22
WAY OF USE	₽	44
Will of obc	FOLIAR	FERTIGATION

PACKAGING: 6 - 25 kg

CROP	APPLICATION TIME		DOSE/HECTARE*	
CROP			FERTIGATION	
Grapes	From vegetative restart to flowering and from fruit set to pea-sized berries, every 8-10 days	3-4 kg	25-30 kg	
Kiwifruit	From vegetative restart to flowering, and from fruit set to fruit enlargement, every 10-12 days	3-4 kg	25-30 kg	
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	From vegetative restart to fruit enlargement, 2-3 applications every 10-15 days	3-4 kg	25-30 kg	
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From vegetative restart to fruit enlargement, 2-3 applications every 10-15 days	3-4 kg	25-30 kg	
Strawberries	From vegetative restart to fruit enlargement, every 10-15 days	3-4 kg	25-30 kg	
Walnut and Hazelnut	From vegetative restart to fruit enlargement, 2-3 applications every 10-15 days	3-4 kg	25-30 kg	
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From post-transplanting to fruit set, 2-3 applications every 10-15 days	3-4 kg	25-30 kg	
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	From post-transplanting to harvest, every 10-15 days	3-4 kg	25-30 kg	
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	In early vegetative phases, or whenever a prompt vegetative restart is required	3-4 kg	25-30 kg	
Flowers and Ornamentals	In early vegetative phases every 10-15 days, or whenever a prompt vegetative restart is required	3-4 kg	25-30 kg	
Seedbeds and Nurseries	In early vegetative phases	3 kg	25 kg	



GOLD DUST §



GOLD DUST is the physiological activator of animal origin characterized by high content of free amino acids and high presence of short-chain proteins, which are easily assimilated by plants.

It activates the main metabolic pathways of the plant, improves the most important physiological processes (flowering, fertilization, fruit set, fruiting and ripening) and enhances the plant's defenses against the main abiotic stresses (temperature extremes, salinity, water stress, hail, phytotoxicity from treatments).

GOLD DUST with its high content of organic Nitrogen, and the special ratio of free amino acids, promotes and supports vigorous and harmonious plant development.

Applied from the earliest stages of crop, **GOLD DUST** supports crop and enables excellent results even under stress conditions.

BIOSTIMULATING EFFECT ANTI-STRESS EFFECT CARRIER EFFECT

COMPOSITION	
Azoto (N) totale	15%
Azoto (N) organico	15%
Carbonio (C) organico di origine biologica	43%

PHYSICO-CHEMICAL CHARACTERISTICS	
SOLUBLE POWDER	
pH (sol 1%) 6,3	
Conducibility E.C. µS/cm (1‰) 518	
WAY OF USE	Ø
	FOLIAR

PACKAGING: 3 - 10 kg

CROP	APPLICATION TIME	DOSE/ HECTARE*
Grapes and Kiwifruit	2-3 applications from vegetative restart to fruit enlargement, every 10-15 days Repeat 1-2 applications at post-harvest	2-3 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	2-3 applications from vegetative restart to fruit enlargement, every 10-15 days Repeat 1-2 applications at post-harvest	2-3 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	2-3 applications from vegetative restart to fruit enlargement, every 10-15 days Repeat 1-2 applications at post-harvest	2-3 kg
Strawberries	Post-transplanting, beginning of flowering, post-fruit set, fruit enlargement	2-3 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	3-4 applications from beginning of flowering, every 10-15 days	2-3 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	At early vegetative phases or whenever a prompt vegetative restart is required	3 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases in combination with post-emergence treatments, or whenever a prompt vegetative restart is required	3 kg
Flowers and Ornamentals	At vegetative restart and after the summer stasis	2-3 kg
Seedbeds and Nurseries	2-3 applications at the beginning of the crop cycle	2 kg

NOTE: GOLD DUST can also be used in FERTIGATION at the same times as above, at a dose of 15-20 kg/ha.



GOLD DUST 10-10-10

GOLD DUST 10-10-10 is an organo-mineral NPK fertilizer characterized by a balanced ratio between the fertilizing elements. In its formulation the mineral fraction is combined with the organic one, derived from animal hydrolyzed epithelium, which makes it particularly effective in supporting crops in the first phase of their vegetative cycle.

For this reason, **GOLD DUST 10-10-10** is the ideal choice for fertilization of grapes and all fruit trees in the early phases and at the end (post-harvest) of the crop cycle. It is also ideal for fertilization of horticultural crops starting just after the transplanting.

Furthermore, **GOLD DUST 10-10-10** is usefully applied whenever crops face a growth disruption or delay due to adverse environmental conditions.

SUPPORTS CROP IN THE GROWTH PHASE HELPS TO OVERCOME TRANSPLANTING STRESS

EXCELLENT IN CASE OF STRESS-RELATED GROWTH DISRUPTION

COMPOSITION	
Total nitrogen (N)	10%
Organic nitrogen (N)	10%
Phosphoric anhydride (P₂O₅)	10%
Potassium oxide (K ₂ O)	10%
Organic Carbon (C) biological origin	28%

PHYSICO-CHEMICAL CHARACTERISTICS	
SOLUBLE POWDER	
pH (sol 1%)	6,8
Conducibility E.C. µS/cm (1‰)	718
WAY OF USE	Ø
	FOLIAR

PACKAGING: 2 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes and Kiwifruit	2-3 applications from vegetative restart to fruit enlargement, every 10-15 days Repeat 1-2 applications at post-harvest	2-4 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	2-3 applications from vegetative restart to fruit enlargement, every 10-15 days Repeat 1-2 applications at post-harvest	2-4 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	2-3 applications from vegetative restart to fruit enlargement, every 10-15 days Repeat 1-2 applications at post-harvest	2-4 kg
Strawberries	Post-transplanting, beginning of flowering, post-fruit set, fruit enlargement	2-4 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	3-4 applications from the beginning of flowering every 10-15 days.	2-4 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	At early vegetative phases or whenever a prompt vegetative restart is required	4 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases in combination with post-emergence treatments, or whenever a prompt vegetative restart is required	4 kg
Flowers and Ornamentals	At vegetative restart and after the summer stasis	2-4 kg
Seedbeds and Nurseries	2-3 applications at the beginning of the crop cycle	2 Kg







ERGON is a nutritional solution that stimulates growth when crops need to overcome main abiotic stresses.

In its unique formulation **ERGON**, thanks to the combined presence of polisaccarides, Aschophillum seaweed extract, growth promoters, hydrolysis-derived amino acids, vitamins' bio-stimulating activity and iron's greening effect, improves photosynthesis.

With an acidic pH **ERGON** is absorbed and made readily available for all physiological processes aimed at stimulating vegetative and root growth. **ERGON** has a renowned greening effect and can be applied on all crops, at all stages and in particular whenever crops are lagging due stress and whenever there is need to boost production.

IMPROVES RESISTANCE TO STRESS IMPROVES PHOTOSYNTHETIC EFFICIENCY

COMPOSITION		
Organic nitrogen (N)		4%
Organic soluble nitrogen (N)		3,6%
Organic Carbon (C), biological origin		12%
Iron (Fe)	Soluble in water	3%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	2,9	
Conductivity E.C. µS/cm (1‰)	505	
Density (g/cm³)	1,1	
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 1 - 6 - 25 Kg

CROP	APPLICATION TIME	DOSE/ HECTARE*
Grapes and Kiwifruit	2-3 applications from vegetative restart to fruit enlargement, every 10-15 days	2-3 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	2-3 applications from vegetative restart to fruit enlargement, every 10-15 days	2-3 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	2-3 applications from vegetative restart to fruit enlargement, every 10-15 days	2-3 kg
Strawberries	3-4 applications from the beginning of flowering, every 10-15 days	2-3 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	3-4 applications from the beginning of flowering, every 10-15 days	2-3 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	At early vegetative phases or whenever a prompt vegetative restart is required	3 kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	At early vegetative phases in combination with herbicide/pesticide treatments	3 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases in combination with herbicide/pesticide treatments	2-3 kg
Flowers and Ornamentals	3-4 applications from the beginning of flowering, every 10-15 days	2-3 kg

NOTE: ERGON can be also used in fertigation, with a 1,5-3 kg/1000 m² dose and every 10-12 days.



ENA 19989



ENA 19989 is a bioactivator made of natural compounds that stimulate plants energy metabolism, with beneficial effects on all growth processes.

The AATC (N-acetyl-thiazolidine-4-carboxilic acid) content in the product in particular increases the amount of proline (an important counter-stress molecule) and cysteine (an efficient metabolic activator) in the plant tissues. This triggers the use of all plants' biochemical supplies, stimulating vital processes and helping to overcome critical development phases throughout the whole crop cycle.

Iron, molybdenum and most notably zinc are present in the formula. Iron and molybdenum influence the photosynthetic process and nitrogen's absorption respectively, while zinc enhances cellular growth and division. Ascophyllum nodosum seaweed derived alginates, carbohydrates and amino acids make **ENA 19989** a formulation with a strong anti-stress activity.

When regularly applied from the early phases of the crop cycle, **ENA 19989** facilitates a uniform sprouting, tissue elongation, abundant flowering and fruit set and a balanced fruit development. Thanks to its stimulating activity on cellular division and multiplication, **ENA 19989** applications favour rachis' elongation on compacted bunch grape varieties.

STIMULATES PLANT GROWTH PROMOTES FLOWERING

COMPOSITION		
Iron (Fe)	Soluble in water	0,5%
Iron (Fe)	DTPA chelated	0,5%
Molybdenum (Mo)	Soluble in water	0,3%
Zinc (Zn)	Soluble in water	1,5%
Zinc (Zn)	Chelated with EDTA	1,5%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	5,5	
Conductivity E.C. µS/cm (1‰)	266	
Density (g/cm3)	1,2	
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 1 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes	From inflorescence clearly visible to post-fruit set 2-3 applications every 10-15 days	0,5-1Kg
Kiwifruit	From pre-flowering to fruit about 20% of final size 2-3 applications every 10-15 days	0,5-1Kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From pre-flowering to fruit diameter up to 40 mm 3-4 applications every 10-12 days	0,5-1Kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	From vegetative restart to fruit enlargement 3-4 applications every 10-12 days	1Kg
Walnut and Hazelnut	From vegetative restart to fruit enlargement 2 applications every 10-12 days	0,5-1Kg
Strawberries	At post-transplanting, pre-flowering, flowering and post-fruit set	0,5-1Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From post-transplanting to flowering-fruit set 2-3 applications every 10-15 days.	0,5-1Kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	From post-transplanting or post-emergence 2-3 applications every 8-10 days	0,5-1Kg
Artichoke	From the emission of the flower heads 2-3 applications every 8-10 days	0,5-1Kg
Flowers and Ornamentals	At transplanting and pre-flowering	0,5-1Kg

^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



ACTIMOL 80



ACTIMOL 80 is a high energy nutritional solution, to be used when support to plants is most needed. ACTIMOL 80's organic complex is made of plant extracts (20%), protein hydrolysates (20%) and polysaccharides (16%). ACTIMOL 80 contains natural growth factors, vitamins, amino acids and alginates.

This organic complex brings:

- Molybdenum, a fundamental element of the nitrate reductase enzyme, which acts as a catalyst for the first step of conversion of nitric nitrogen into nitrogen compounds, useful for the plant. This accelerates the transformation of nitric nitrogen into organic products (amino acids and proteins) which in turn translates into plant growth and abundant flowering. In addition, Mo as a cofactor is essential in case of oxidative stress: under conditions of high lighting and/or excessive light absorption (photoinhibition, photooxidation), nitrate reduction in leaves can not only use excess energy, but also alleviate the high light stress. And it is the key enzyme to catalyze the final step of abscisic acid (ABA) biosynthesis in plants
- Iron (DTPA chelated) and magnesium, which improve photosynthesis and keep the plant green and active
- Boron, which has a positive effect on cell growth and cell division, on sprouting, on pollen germination hence on the fruit set. Boron is also involved in the production of nucleic acids and hormones, in sugar storage and translocation within the plant, in carbohydrates metabolism and in nutrients' uptake (nitrogen, potassium and calcium in particular).

Foliar applications of **ACTIMOL 80** translate into fast vegetative restart, more intense flowering, improved fruit set and rapid fruit growth.

FAVORS VEGETATIVE RESTART IMPROVES FLOWERING AND FRUIT SET IMPROVES NITROGEN'S ABSORPTION REDUCES NITRATES' CONTENT

COMPOSITION		
Magnesium oxide (MgO)	Soluble in water	5%
Boron (B)	Soluble in water	0,2%
Iron (Fe)	Soluble in water	0,3%
Iron (Fe)	DTPA chelated	0,3%
Molybdenum (Mo)	Soluble in water	8%

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)	6,8	
Conductivity E.C. µS/cm (1‰)	680	
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 1 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Kiwifruit and Citrus (orange, lemon, tangerine, clementine, bergamot)	From budding to post-fruit set 2-3 applications every of 8-10 days	1-2 kg
Strawberries	From pre-flowering to post-fruit set 2-3 applications every 7-8 days	1-2 kg
Walnut and Hazelnut	From vegetative restart to fruit enlargement 2 applications every 10-12 days	1-2 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From pre-flowering to post-fruit set 2-3 applications every 7-8 days	1-2 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	Starting 20 days before harvest 2 applications every 7-10 days	1-2 kg

NOTE: ACTIMOL 80 can be also successfully used in fertigation, during the phases described in the chart, with a 300-500 g/100 m² dose.



*The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



EMOFILL L is an organic LIQUID fertilizer characterized by the presence of hemoglobin derived from the processing of animal blood collected from slaughterhouses according to stringent sanitary protocols, which guarantee its safety from a hygienic and sanitary point of view.

The high content of fast-acting organic Nitrogen and the presence of Iron contained in hemoglobin give EMOFILL L a marked anti-stress action, thus useful for use in the early stages of the growing cycle.

In addition, the amino acids and proteins present stimulate plants to greater metabolic activity, resulting in marked tissue growth.

The use of the formulation by rooting increases the "vitality" of the soil, promoting and intensifying "rhizogenesis."

IMPROVES ROOT MICROBIAL ENVIRONMENT STIMULATES ROOT GROWTH **ENHANCES PLANT RESPONSE TO ABIOTIC STRESS**

COMPOSITION	
Total nitrogen (N)	5%
Organic nitrogen (N)	5%
Organic Carbon (C) biological origin	15%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)		6,6
Conducibility E.C. µS/cm (1%)		175
Density (g/cm³)		1,12
WAY OF USE	Ø	745
Will of osc	FOLIAR	FERTIGATION

PACKAGING: 6 - 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*	
CRUP	APPLICATION TIME		FERTIGATION
Grapes	From vegetative restart to flowering, and from fruit set to pea-sized grape	3-4 kg	25-50 kg
Kiwifruit	From vegetative restart to flowering, and from fruit set to fruit enlargement	3-4 kg	25-50 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	At vegetative restart	3-4 kg	25-50 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From vegetative restart to flowering, and from post-fruit set to fruit enlargement	3-4 kg	25-50 kg
Strawberries	From early vegetative phases to fruit enlargement, every 10-15 days, or whenever a prompt vegetative restart is required	3-4 kg	25-50 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From post-transplanting to fruit set, and during fruit enlargement	3-4 kg	25-50 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	Throughout the whole crop cycle from post-transplanting, every 10-15 days	3-4 kg	25-50 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	In early vegetative phases, or whenever a prompt vegetative restart is required	3-4 kg	25-50 kg
Flowers and Ornamentals	In early vegetative phases, every 10-15 days, or whenever a prompt vegetative restart is required	3-4 kg	25-50 kg
Seedbeds and Nurseries	In early vegetative phases, or whenever a prompt vegetative restart is required	2 kg	20 Kg



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary.
All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.

HUMIFILL L

HUMIFILL L is a highly concentrated suspension of active humic substances, consisting of a humo-proteic complex.

The appropriate presence of humic and fulvic acids, in a balanced ratio, makes **HUMIFILL L** an efficient formulation both at foliar and root level.

It has a direct nutritive function at foliar level, thanks to its readily available organic nutrients, and an indirect activity that is expressed by increased cell membranes' permeability, which facilitates the epigean absorption of macro- and microelements.

At root level **HUMIFILL L** stimulates new growth on roots and triggers the Cation-Exchange Capacity (CEC) with improved micro elements' availability, especially iron and phosphorus.

HUMIFILL L can be applied to limit disorders that might originate from pest control and herbicide applications; in this case the combination with **RA.AN** L **13186** is recommended.

IMPROVES NUTRIENT UPTAKE BOOSTS CROP DEVELOPMENT ENHANCES SOIL FERTILITY

COMPOSITION	
Organic matter on the dry matter	13%
Organic matter on dry matter	61%
Humified organic matter as a percentage on organic matter	82%
Organic Nitrogen (N)	0,7%
Report C/N	43,5%
Half-extractor: KOH	

PHYSICO-CHEMICAL CHARACTERISTICS			
LIQUID			
pH (sol 1%)		6,9	
Conducibility E.C. µS/cm (1‰) 325			
Density (g/cm³)	ensity (g/cm³) 1,22		
WAY OF USE	Ø	44	
Will of osc	FOLIAR	FERTIGATION	

PACKAGING: 5 - 25 kg

CDOD	ADDITION THE	DOSE/HECTARE*	
CROP	APPLICATION TIME		FERTIGATION
Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Grapes, Citrus (orange, lemon, tangerine, clementine, bergamot), Olive and Kiwifruit	Pre- and post-flowering, fruit enlargement	3-5 kg	25-50 kg
Strawberries	At vegetative restart, fruit enlargement	3-5 kg	25-50 kg
Walnut and Hazelnut	From vegetative restart to fruit enlargement	3-5 kg	25-50 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From post-emergence or post-transplanting, every 8-10 days	3-5 kg	25-50 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	From post-emergence or post-transplanting to harvest, every 10-15 days	3-5 kg	25-50 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From early vegetative phases	3-5 kg	25-50 kg
Flowers and Ornamentals	From transplanting or emergence, every 8-10 days	3-5 kg	25-50 kg

NOTE: HUMIFILL L can be used for seed treatment on rice, soybeans, potatoes, corn and wheat.

- Small seeds: 0,8-1 kg/100 kg of seeds
- Large seeds: 0,4-0,5 kg/100 kg of seeds

HUMIFILL L can be applied on crop residues (corn stalks, wheat and soybeans stubble, beets leaves and crowns) to foster rapid humification of the organic matter. The dose rate is 8-10 kg/ha, to be uniformly applied on previously chopped residues and before ploughing.





HUMIFILL PS

HUMIFLL PS is a 100% highest purity humic extracts formulation. It is recommended for tank mixes with microelements, in particular iron and manganese, as HUMIFILL PS facilitates their availability and root uptake.

HUMIFLL PS, when added to nutritive solutions, gives good results in hydroponics too. It is also recommended to use in a mix with ordinary fertigation products. In case of transplanting roots, together with the "soil cake", must be soaked in the product mixed in water, with seedlings to be shaken before being planted to eliminate the excess of product.

When applied to the soil, either on open field or small plots, it improves the Cation-Exchange Capacity (CEC) and the uptake of available elements, it affects the soil physicochemical properties by triggering the formation of stable soil aggregates and it favors soil microorganisms' proliferation

PROVIDES ORGANIC MATTER PROTECTS AND FAVORS SOIL FERTILITY STIMULATES ROOT UPTAKE

COMPOSITION	
COMPOSITION	
Organic substance on the as-is	75%
Organic matter on dry matter	85%
Humified organic matter as a percentage of organic matter	93%
Organic Nitrogen (N)	0,9%
Report C/N	47,2%
Half-extractor: KOH	

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)		9,3
Conducibility E.C. µS/cm (1‰)		
WAY OF USE	Ø	747
Will of obe	FOLIAR	FERTIGATION

PACKAGING: 1 - 10 Kg

5000		DOSE/HECTARE*	
CROP	ROP APPLICATION TIME		FERTIGATION
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From vegetative restart to flowering and post-fruit set, to favor fruit growth and size	1-2 kg	10-20 kg
Grapes	Vegetative restart, flowering	1-2 kg	10-20 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	Vegetative restart	1-2 kg	10-20 kg
Kiwifruit	Vegetative restart, flowering	1-2 kg	10-20 kg
Strawberries	From early vegetative phases, every 10-15 days, or whenever a prompt vegetative recovery is required	1-2 kg	10-20 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	Post-transplanting, pre- and post-flowering, pre-veraison (change of color)	1-2 kg	10-20 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	Post-transplanting	1-2 kg	10-20 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	In early vegetative phases	1-2 kg	10-20 kg
Flowers and Ornamentals	From early vegetative phases, or whenever a prompt vegetative recovery is required	1-2 kg	10-20 kg

NOTE:

HUMIFILL PS can be used for seed treatment on rice, soybeans, potato, corn and wheat.

- Small seeds: 200-300 g/100 kg seeds, diluted in given water volume.

- Large seeds: 100-150 g/100 kg seeds, diluted in given water volume.

HUMIFILL PS can be applied on crop residues (corn stalks, wheat and soybeans stubble, beets leaves and crowns) to foster rapid humification of the organic matter. The dose rate is 2-2,5 kg/ha diluted in 500/1000 litres of water to be uniformly applied on previously chopped residues and before

*The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions



RADICURE L





RADICURE L is a product with outstanding biocatalyst activity. The formulation is a specific mix of microelements conceived to promote fast and abundant root production immediately after transplanting or sowing once seeds start to germinate.

In RADICURE L the single trace elements are tied to a particular organic complex of exclusively vegetal origin, which is able to stimulate the root development and to reduce post-transplanting stress.

Plant extracts and laevorotatory amino acids (free and combined) have a specific role in protein synthesis, improving the functionality of every single cell which affects and accelerates growth.

The presence of alginates, auxin-like organic compounds, natural cytokinins, pentosans and other polysaccharides in particular strengthen cell metabolism, boost important enzymatic processes and stimulate rhizotaxis favoring abundant rooting.

Moreover, the presence of betaine and microelements, allows plants to overcome stress coming from adverse climate conditions (thermal, drought, saline).

IMPROVES ROOTING PROMOTES ROOTING

COMPOSITION			
Boron (B)	water-soluble	0,3%	
Copper (Cu)	water-soluble	0,5%	
Molybdenum (Mo)	water-soluble	0,4%	
Zinc (Zn)	water-soluble	0,8%	

PHYSICO-CHEMICAL CHARACTERISTICS	
LIQUID	
pH (sol 1%)	6,3
Conducibility E.C. µS/cm (1‰)	518
WAY OF USE	7 A T
	FERTIGATION

PACKAGING: 1 - 25 kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	One application at transplanting In any phenological phase, one application whenever a prompt and abundant root emission is required	25 kg
Flowers and Ornamentals	One application at transplanting In any phenological phase, one application whenever a prompt and abundant root emission is required	25 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	One application at transplanting In any phenological phase, one application whenever a prompt and abundant root emission is required	25 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	One application at transplanting In any phenological phase, one application whenever a prompt and abundant root emission is required	25 kg
Seedbeds and Nurseries	Seedlings' rooting: dip trays Cuttings' rooting: wet after transplanting, repeat after 15 days	200-300 g/hectolitre



PHYSIOLOGICAL ACTIVATORS

SCUDO K



SCUDO K is an oligoelement-based product. It exerts both a nutritive activity, due to the presence of boron, manganese and molybdenum, and a protective one on wounds caused by high temperatures coupled with an intense solar radiation.

Its exclusive formulation is based on a specific complex that is 60% bound to a Kaolin support, which enhances the nutritional properties of the single microelements. Boron in particular, when chemically attached to calcium, favors the thickening of cell wall membranes, improving their protection against scorching. Manganese, thanks to its complex oxidative activity, contributes to immobilize free radicals. Molybdenum, in addition to having antioxidant properties, has a role in the change of color (veraison) and ripening physiological processes, with a positive effect on coloring.

Thanks to the presence of specific physical filters such as zinc oxide and kaolin, **SCUDO K** has a strong covering ability that physically reflects sun rays. The resulting lower temperature of the fruit outer surface protects from oxidative stress and other degradative phenomena such as scorching, cracking, russeting in many horticultural and fruit crops. Moreover, the presence of Silicon oxide, together with its typical deposit on the treated surfaces as a thin protective film, prevents pest damage and reduces egg laying by insects.

SCUDO K is finely micronized, avoiding possible abrasions to the equipment. It is therefore good for all kinds of atomizers and can be mixed with most pesticides used in agriculture. The combined use of copper-based products is not recommended, since it reduces shielding.

REDUCES SUNBURN REDUCES HEAT STRESS DAMAGE PREVENTS RUSTINESS REPELLENT TO INSECTS IMPROVES PRODUCTION OUALITY

COMPOSITION		
Boron (B) totale		4,2%
Boron (B)	water-soluble	1%
Manganese (Mn)	water-soluble	1,5%
Zinc (Zn) totale		1%
Molybdenum (Mo)		0,02%

PHYSICO-CHEMICAL CHARACTERISTICS	
SOLUBLE POWDER	
pH (sol 1%)	7,3
Conducibility E.C. µS/cm (1‰)	95
WAY OF USE	Ø
	FOLIAR

PACKAGING: 10 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Industrial tomato	From 10-15 mm berry to ripening, 4-6 applications every 6-8 days	4-5 kg
Pome fruits (apple, pear, quince) and pomegranate	From fruit enlargement to pre-harvest, 5-6 applications every 7-8 days	4-5 kg
Citrus (orange, lemon, tangerine, clementine, bergamot)	From fruit enlargement to pre-harvest, 5-6 applications every 7-8 days	4-5 kg
Olive	From fruit enlargement to pre-harvest, 5-6 applications every 7-8 days	4-5 kg
Pepper, cucumber, melon	Pre-harvest, 2-3 applications every 7-8 days	4-5 kg
Onion	One application after harvesting	10-12 kg
Grapes, Fruit crop and Horticultural crops	In view of warmer days, 2-3 applications every 7-8 days	4-5 kg

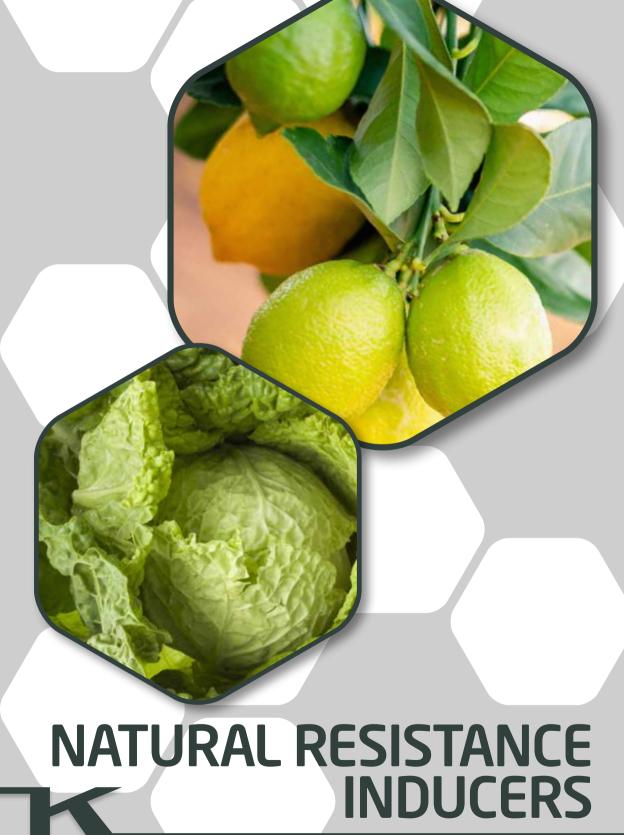
NOTE: The use of 200-300 L water volume per hectare for the treatment is recommended.

SCUDO K can be also used with much higher doses (2-5 kg/100 L water) but with a reduced number of applications (2-3 treatments).

SCUDO K's frequent applications at doses not higher than 1 kg/100 L of water provides an optimal protection to fruits and leaves, thus granting a total and uniform coverage throughout the whole critical period, when burnings due to excessive solar radiation may occur. The product can be washed away; the treatment must be repeated in case of rainfall.

*The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.













From a sustainable agriculture's perspective, natural inducers are a fundamental tool in biological, integrated and in traditional agricultural management, which aims at reducing the number of treatments and residue levels at harvest. By making plants more reactive to external stimuli, resistance inducers give crops **stronger tolerance** to (abiotic and biotic) stress. Resistance inducers make it possible to employ more environmentally friendly spraying programs with reduced applications of conventional chemical products and keeping the treated quantity of copper and sulphur within allowed limits.

Resistance inducers are "substances" that either activate or increase resistance (or defence) gene expression in the cells of the various plant tissues. These "substances" are called "ELICITORS" and stimulate those processes which plants naturally employ to defend themselves from pathogens and environmental stress.

These defence mechanisms can be either physical or biochemical or both. Physical protection is manifested by the thickening of tissues and cell walls, with the objective to stop the spread of infections. Biochemical protection is given by the production of compounds with antifungal and antibacterial properties (such as Phytoalexins and hydrolytic enzymes) and by the activation of specific genes inducing a defence reaction known as systemic acquired resistance (SAR).

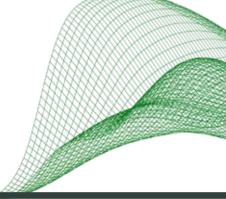
There are various kinds of resistance inducers: non-pathogenic microorganisms that can colonise the surface of roots and plants, microorganisms used as microbial opponents, various chemicals (both synthetic and natural) that simulate the presence of a pathogen or are similar to cell signalling molecules that activate resistance. Among all resistance inducers, Chitosan stands out thanks to its natural origin and complete biodegradability.

K-Adriatica's line of NATURAL RESISTANCE INDUCERS includes:

CHITO K 500 HENDOPHYT PS

LINEA KODENS:

KODENS Cu KODENS Cu 12-6 KODENS Cu Gel formulation



CHITOSAN

Chitosan is an organic polymer derived from chitin, a major constituent of the exoskeleton of many arthropods such as insects and crustaceans but also present in the cell walls of fungi.

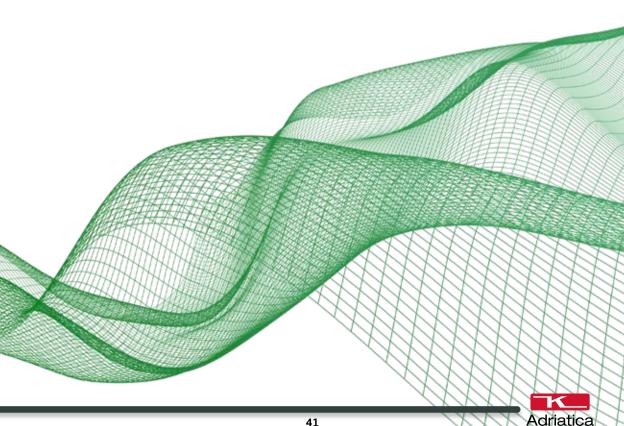
Different types of chitosan are available and they differ from one another in molecular mass (MM), deacetylation degree (DD) and viscosity.

These are the most common chitosan products available, differing from one another based on the weight of the polysaccharide chain:

- High Molecular Mass Chitosan: 375-310 kDa; GD >75%; cP 800-2000
 Medium Molecular Mass Chitosan: 310-190 kDa; GD >75-85%; cP 200-800
 Low Molecular Mass Chitosan: 190-50 kDa; GD >85%; cP 20-300

These structural differences are important in determining chitosan's physico-chemical and biological properties. It has been proved that Low Molecular Mass Chitosan has high biological properties.

All K-Adriatica NATURAL RESISTENCE INDUCERS are based on Low Molecular Mass Chitosan.



41

CHITO K 500



CHITO K 500 is a 5% chitosan-based formulation. Chitosan's application triggers plant endogenous defence reactions. It activates both physical and biochemical protection mechanisms, through the release of phytoalexins and the induction of Systemic Acquired Resistance (SAR), Moreover, chitosan triggers a priming effect, a physiological state that enables plants to respond more rapidly and more robustly after exposure to fungal infections.

The regular application of CHITO K 500 forms a protective layer on the treated part that reduces evapo-transpiration, especially at high temperatures, and increases cell turgidity with greater resistance to humidity and rain-related damage.

RESISTANCE INDUCER IMPROVES PLANT VITALITY INCREASES CROP PERFORMANCE

COMPOSITION	
5% Chitosan solution	

PHYSICO-CHEMICAL CHARACTERISTICS	
LIQUID	
pH (sol 1%)	3,1
Conducibility E.C. µS/cm (1‰)	30
Density (g/cm³)	1

PACKAGING: 6 - 10 - 25 kg

CROP	APPLICATION TIME	DOSE*
Grapes, Fruit crops	4-8 applications, every 2 weeks	2-4 L
Horticultural crops	4-8 applications, every 2 weeks	1-2 L
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	4-8 applications, every 2 weeks	2-4 L
Spices and Aromatic herbs	4-8 applications, every 2 weeks	1-2 L
Fodder and forage crops (alfalfa, clover, grass)	4-8 applications, every 2 weeks	1-2 L
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale), Potato	Seed treatment	1-2 L/hectolitre
Beets	Seed treatment	1-4 L/hectolitre

NOTE: A water quantity in the amount of 200/400 L per hectare is recommended. CHITO K 500 can be also used in fertigation with a 10-15 kg/ha dose, with 2-week interval applications, to improve root development and to increase plant resistance to nematodes, bacteria and fungi.





HENDOPHYT PS

HENDOPHYT PS is a totally soluble wettable powder product with a high concentration of polyglucosamines, which are responsible for the activation of plants' natural defences.

When dissolved in water, thanks to its high viscosity **HENDOPHYT PS** deposits a thin layer of product or biofilm (a transpiring biodegradable laver) on the treated part that causes:

- a reduction of evapo-trasnpiration, especially when the air temperature is high
- plants to be more resistant to humidity- or rain-related damages
- resistance to cracking in sensitive varieties, particularly under heavy rainfall
 • reduction of physiological oxidation
- increase of tissue turgidity

HENDOPHYT PS has a role in inducing Callose deposition and Lignin synthesis, which makes the product particularly indicated to treat plants and trees that have been injured during pruning or that bear other mechanical injuries, with the biofilm protecting against external agents.

ACTIVATES THE NATURAL RESISTANCE MECHANISMS

IMPROVES END PRODUCT OUALITY **FAVORS HEALING**

PROMPTS LONGER SHELF-LIFE

COMPOSITION	
Polysaccharides	60%
Amino acid complex	2%
Citric acid	6%
Organic carbon (C)	35%

PHYSICO-CHEMICAL CHARACTERISTICS	
SOLUBLE POWDER	
pH (sol 1%)	4,6
Conducibility E.C. µS/cm (1‰)	420
WAY OF USE	Ø
	FOLIAR

PACKAGING: 0.5 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes	10-15 days before harvest. If necessary repeat after 2 weeks.	1-1,5 kg
Kiwifruit	1 application at pre-flowering, to be repeated at flowering. When leaves fall, 1 application every 30 days until the end of winter.	1-1,5 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	10-15 days before harvest. If necessary repeat after 2 weeks.	1-1,5 kg
Stone fruits (peach, nectarine, apricot, cherry, plum)	At vegetative restart, 1 application every 20 days until harvest. When leaves fall, 1 application every 30-40 days until the end of winter.	1-1,5 kg
Citrus (orange, lemon, tangerine, clementine, bergamot)	10-15 days before harvest. If necessary repeat after 2 weeks.	1-1,5 kg
Walnut	At vegetative restart, 1 application every 20 days until harvest. When leaves fall, 1 application every 30-40 days until the end of winter.	1-1,5 kg











LINEA KODENS

ACTIVATES NATURAL RESISTANCE MECHANISMS STRENGHTENS PLANT NATURAL DEFENCES IMPROVES CROP PHYSIOLOGICAL CONDITIONS PROTECTS WITH REDUCED COPPER DOSE RATES

The **KODENS LINE** of products is made of nutritional specialities that target the crops' general conditions and their balanced growth. It contains Gluconic Acid, a natural complexing agent that speeds nutrients' uptake and translocation through the sap with the effect to stimulate photosynthesis, acting as a powerful plant anti-stress.

In all formulations, copper, sulfur and boron ions are strengthened by the presence of biopolymers. The product forms a thin layer on the treated parts (biodegradable transpiring film) warranting highest efficacy even in the toughest agronomic and pedoclimatic conditions.

The systematic use of the product stimulates production of endogenous secondary metabolites, which trigger the crop's natural resistance to the development of fungi, bacteria and viruses.

The KODENS LINE includes:

KODENS Cu KODENS Cu 12-6 KODENS Cu Gel formulation



KODENS Cu



KODENS Cu is a nutritional specialty that target the crops' general conditions and activates their natural resistance mechanisms.

It contains copper complexed by gluconic acid, which is a natural complexing agent that speeds nutrients' uptake and translocation through the sap with the effect to stimulate photosynthesis, acting as a powerful plant anti-stress. This allows you to maximize results already at low dosages.

KODENS Cu contains also boron that determines a greater lignification of the tissues and a greater strengthening of the stem, thus increasing the mechanical resistance to damages caused by biotic and abiotic agents.

The formula is completed by the presence of a high amount of natural biopolymers that stimulates production of endogenous secondary metabolites, triggering the crop's natural resistance to the development of fungi, bacteria and viruses and also forms a thin layer on the treated parts (biodegradable transpiring film) warranting highest efficacy even in the toughest agronomic and pedoclimatic conditions.

ACTIVATES NATURAL DEFENCE MECHANISMS

TRIGGERS HEALING PROCESSES

IMPROVES RESISTANCE TO DISEASES AND ENVIRONMENTAL ADVERSITIES

PROTECTS WITH REDUCED COPPER DOSE RATES

COMPOSITION		
Boron (B)	water-soluble	0,2%
Copper (Cu)	water-soluble	5,5%

PHYSICO-CHEMICAL CHARACTERISTICS	
SOLUBLE POWDER	
pH (sol 1%)	5,3
Conducibility E.C. µS/cm (1‰)	402
WAY OF USE	Ø
	FOLIAR

PACKAGING: 1 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes and Kiwifruit	Throughout the whole crop cycle, every 15-20 days	1-1,5 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	Throughout the whole crop cycle, every 15-20 days	1-1,5 kg
Walnut and Hazelnut	Throughout the whole crop cycle, every 15-20 days	1-1,5 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	Throughout the whole crop cycle, every 15-20 days	1-1,5 kg
Strawberries	Throughout the whole crop cycle, every 15-20 days	1-1,5 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	Throughout the whole crop cycle, every 15-20 days	1-1,5 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	Throughout the whole crop cycle, every 15-20 days	1-1,5 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	Throughout the whole crop cycle, every 15-20 days	1-1,5 kg
Flowers and Ornamentals	Throughout the whole crop cycle, every 15-20 days	1-1,5 kg
Seedbeds and Nurseries	Throughout the whole crop cycle	1-1,5 kg

NOTE: A water volume of 200 to 400 liters per hectare is recommended.

*La scelta del dosaggio è subordinata a vari fattori e può essere variata secondo necessità. Tutti gli interventi possono essere ripetuti in relazione alle diverse necessità delle colture. Per la corretta applicazione nelle specifiche condizioni pedoclimatiche e CROPII, si consiglia di consultare il Nostro Servizio Tecnico.



KODENS Cu 12-6

KODENS Cu 12-6 is a nutritional specialty that target the crops' general conditions and improves their response to environmental stress.

It contains copper complexed by gluconic acid. This is a natural complexing agent that speeds nutrients' uptake and translocation through the sap with the effect to stimulate photosynthesis, acting as a powerful plant anti-stress. This allows you to maximize results already at low dosages.

KODENS Cu 12-6 contains also boron and sulfur. Boron, causing a greater lignification of the tissues and a greater strengthening of the stem, increases the mechanical resistance to damages caused by biotic and abiotic agents. Sulfur in turn strengthens the plant and improves its resistance against fungal diseases.

The formula is completed by the presence of a natural biopolymers that stimulates production of endogenous secondary metabolites, which trigger the crop's natural resistance to the development of fungi, bacteria and viruses and also forms a thin layer on the treated parts (biodegradable transpiring film) warranting highest efficacy even in the toughest agronomic and pedoclimatic conditions.

STRENGHTENS PLANT NATURAL DEFENCES IMPROVES CROP PHYSIOLOGICAL CONDITIONS PROTECTS WITH REDUCED COPPER DOSE RATES

COMPOSITION		
Sulfuric anhydride (SO₃)	water-soluble	6%
Boron (B)	water-soluble	0,3%
Copper (Cu)	water-soluble	12%

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)	5,0	
Conducibility E.C. µS/cm (1‰)	348	
WAY OF USE	Ø	
o. 525	FOLIAR	

PACKAGING: 1 kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes	From fruit growth to harvest, 2-3 applications every 15-20 days. When leaves fall, 2 applications every 15-20 days.	1-1,5 kg
Kiwifruit	From sprouting to fruit diameter up to 40 mm, 2-3 applications every 15 days. When leaves fall, 2 applications every 15-20 days.	1-1,5 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	Throughout the whole crop cycle.	1-1,5 kg
Pome fruits (apple, pear, quince)	From fruit growth to harvest, 2-3 applications every 15-20 days. When leaves fall, 2 applications every 15-20 days.	1-1,5 kg
Stone fruits (peach, nectarine, apricot, cherry, plum)	From sprouting to pit hardening, 2-3 applications every 15 days. When leaves fall, 2 applications every 15-20 days.	1-1,5 kg
Strawberries	Throughout the whole crop cycle.	1-1,5 kg
Walnut and Hazelnut	Throughout the whole crop cycle.	1-1,5 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	Throughout the whole crop cycle.	1-1,5 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	Throughout the whole crop cycle.	1-1,5 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane) (pomodoro, tabacco, soia, girasole, cotone, Beets)	Throughout the whole crop cycle.	1-1,5 kg
Flowers and Ornamentals	Throughout the whole crop cycle.	1-1,5 kg



KODENS Cu Gel formulation



KODENS Cu Gel formulation is a nutritional specialty that target the crops' general conditions and their balanced growth.

It contains copper complexed by gluconic acid. This is a natural complexing agent that speeds nutrients' uptake and translocation through the sap with the effect to stimulate photosynthesis, acting as a powerful plant anti-stress. This allows you to maximize results already at low dosages.

The anti-stress action is enhanced by the presence of boron, which causes a greater lignification of the tissues and a strengthening of the stem, thus increasing plant mechanical resistance to damages caused by biotic and abiotic agents.

Its gel formulation makes **KODENS Cu Gel formulation** a product with high wettability, adhesiveness and assimilation through the cuticle. Thanks to its activity, selectivity and resistance to leaching, it ensures a better and prompt nutrient assimilation by the plant. The uniqueness of the formulation allows to obtain a rapid availability of the active principle associated with a continuous and gradual release of copper ions. Therefore, by combining promptness and persistence of action, the highest efficacy of the treatment is guaranteed even in the toughest agronomic and pedoclimatic conditions.

The systematic use of the product induces a marked elicitor action (endogenous production of secondary metabolites), which triggers the crop's natural resistance to the development of fungi, bacteria and viruses.

IMPROVES CROP PHYSIOLOGICAL CONDITIONS

INCREASES RESISTANCE TO DISEASES AND ENVIRONMENTAL ADVERSITIES

HIGH EFFICACY WITH REDUCED COPPER DOSE RATES

COMPOSITION		
Boron (B)	water-soluble	0,2 %
Copper (Cu)	water-soluble	6 %

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	4,8	
Conducibility E.C. µS/cm (1‰)	340	
Density (g/cm³)	1,4	
WAY OF USE	Ø	
TIME OF OSE	FOLIAR	

PACKAGING: 1 - 6 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes and Kiwifruit	Throughout the whole crop cycle	2-3 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	Throughout the whole crop cycle	2-3 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	Throughout the whole crop cycle	2-3 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	Throughout the whole crop cycle	2-3 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	Throughout the whole crop cycle	2-3 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	Throughout the whole crop cycle	2-3 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	Throughout the whole crop cycle	2-3 kg
Flowers and Ornamentals	Throughout the whole crop cycle	2-3 kg
Protected crops (Fruit crops, Horticultural crops, Flowers, Ornamentals)	Throughout the whole crop cycle	2-3 kg
Seedbeds and Nurseries	Throughout the whole crop cycle	2 Kg

NOTE: A water volume of 200 to 400 liters per hectare is recommended.

*The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.













Wrong agricultural practices and local effects of climate change are some of the factors that may activate a severe soil **degradation process** leading to a partial or even complete loss of its properties the extent of which becomes evident when the process is either irreversible or in such an advanced state to require huge efforts in terms of money and time to be reversed. According to FAO, 33% of soils are degraded and with salinity, compactness, acidification and lack of nutrients problems. The direct consequence on the agricultural system is a progressive loss of crops' productivity.

A more **rational** and **eco-friendly** soil management, with beneficial effects on the rooting system, is necessary to guarantee optimal productive levels.

With this in mind K-Adriatica has developed solutions where polyphenols and organic acids, coupled with an accurate selection of mycorrhiza and bacteria, allow the improvement of the soil's structure, the acidification of soils with a high pH, the reduction of damage due to salinity excesses and the restoration of a proper soil-plant balance.

K-Adriatica's recommendations to keeping the RHIZOSPHERE

active are:

GEOSAN LINE
GEOSAN MICRO NP 6,5-24,5
GEOSAN L NPK 8-6-6
GEOSAN L
GEOSAN PS NPK 4 0 8

BIOACTIVATED LINE
NEMASPOR GR 1036
MICOPLAS GR SOIA



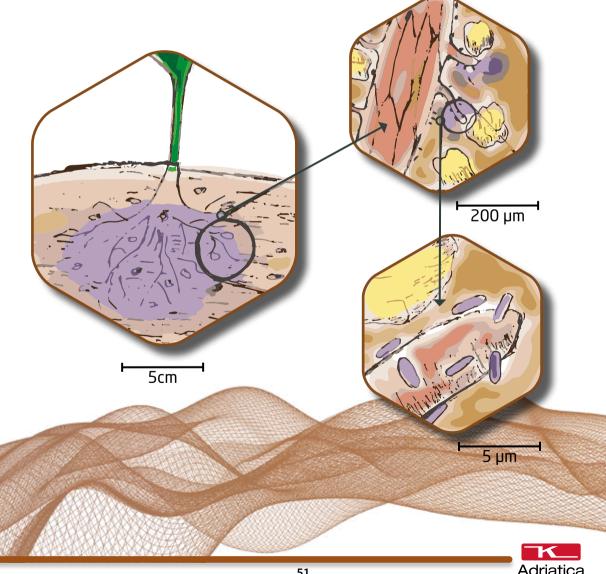
RHIZOSPHERE

The term "rhizosphere" refers to a very circumscribed area of soil that surrounds the root and is actively influenced by the plant.

The rhizosphere can be defined as a true "complex system" whose PHYSICO-CHEMICAL CHARACTERISTICS are substantially different from those of the rest of the soil. The rhizosphere is the part of the soil where interactions between plant roots, microorganisms, and substances in soil particles take place.

It is essential to maintain and promote a **proper balance** between these parts in order to achieve the set goals of production.

A disruption of this balance is, in fact, associated with altered soil structure, reduced microbial activity and nutrient depletion. This results, at the CROP level, in reduced growth, reduced flowering and fruit set, and delayed entry into production, compromising crop quantity and quality.









GEOSAN LINE

IMPROVES THE ROOTING SYSTEM CONTRASTS THE EFFECTS OF SOIL EXHAUSTION REDUCES THE DAMAGES CAUSED BY ROOT PARASITES

The **GEOSAN LINE** is a range of products characterized by a nutritive and bio-strengthening activity in the rhizosphere.

The mineral component, made of single elements, works together with the organic one, which is made of chestnut tanninrich selected polyphenols. This particular formulation maximises the polyphenol complexing properties with the effect to promote root growth and nutrient uptake, also in soils affected by exhaustion.

Moreover the polyphenolic complex improves soil's structure, the acidification of soils with excessive pH and prevents salinity-related damages.

Thanks to the stimulating activity on the development of the useful microflora (microbic antagonists), the products of the **GEOSAN LINE** limit the proliferation of damaging pathogenic agents and contribute to limit the development and multiplication of (phytophagous) nematodes, which are responsible for plant root damage. Regular applications improve soil's vitality and promote crop development.

The **GEOSAN LINE** includes:

GEOSAN MICRO NP 6,5-24,5 GEOSAN L NPK 8-6-6 GEOSAN L GEOSAN PS NPK 4-0-8



GEOSAN MICRO NP 6,5-24,5

GEOSAN MICRO NP 6,5-24,5 is a microgranular fertilizer with "starter" effect based on nitrogen, phosphorus, zinc and boron, characterized by a nutritive and bio-strengthening activity in the rhizosphere.

This particular formulation maximises the polyphenol complexing properties with the effect to promote root growth and nutrient uptake, also in soils affected by exhaustion. Moreover the polyphenolic complex improves soil's structure, the acidification of soils with excessive pH and prevents salinity-related damages.

Thanks to the stimulating activity on the development of the useful microflora (microbic antagonists), **GEOSAN MICRO NP 6,5-24,5** limits the proliferation of damaging pathogenic agents and contributes to limit the development and multiplication of (phytophagous) nematodes, which are responsible for plant root damage. Regular applications improve soil's vitality and promote crop development.

PROMOTES RHIZOGENESIS STIMULATES ROOT DEVELOPMENT IMPROVES MINERAL ELEMENTS UPTAKE REDUCES DAMAGE DUE TO ROOT PARASITES

COMPOSITION	
Total nitrogen (N)	6,5%
Organic nitrogen (N)	1%
Ammoniacal nitrogen (N)	5,5%
Phosphoric anhydride (P₂O₅) Total	24,5%
Phosphoric anhydride (P₂O₃) Soluble in neutral ammonium citrate and water	24,5%
Phosphoric anhydride (P₂O₅) Soluble in water	22%
Boron (B)	0,1%
Molybdenum (Mo)	0,002%
Zinc (Zn)	0,8%
Organic Carbon (C), biological origin , activated with 1% humic extracts	7,5%

PHYSICO-CHEMICAL CHARACTERISTICS	
MICROGRANULAR	
pH (sol 10%)	3,4
Conducibility E.C. µS/cm (1‰)	490
Peso Specifico	0,77
Granulometry	0,8-1,2 mm
WAY OF USE	iiiiii
	SOIL

PACKAGING: 15 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit, Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	At transplanting or at vegetative restart	50 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	At transplanting or at vegetative restart	50 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	Localized at transplant	50 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	Localized at transplant	50 kg
Flowers and Ornamentals	Localized at transplant	50 kg

^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



GEOSAN L NPK 8-6-6

GEOSAN L NPK 8-6-6 is a liquid **NPK** fertilizer, suitable for fertigation, characterized by a nutritive and bio-strengthening activity in the rhizosphere. This particular formulation maximises the polyphenol complexing properties with the effect to promote root growth and nutrient uptake, also in soils affected by exhaustion. Moreover the polyphenolic complex improves soil's structure, the acidification of soils with excessive pH and prevents salinity-related damages.

Thanks to the stimulating activity on the development of the useful microflora (microbic antagonists), **GEOSAN L NPK 8-6-6** limits the proliferation of damaging pathogenic agents and contributes to limit the development and multiplication of (phytophagous) nematodes, which are responsible for plant root damage. Regular applications improve soil's vitality and promote crop development.

IMPROVES ROOT DEVELOPMENT CONTRASTS SOIL'S EXHAUSTION REDUCES DAMAGE CAUSED BY ROOT PARASITES

COMPOSITION		
Total nitrogen (N)		8%
Nitric nitrogen (N)		1,1%
Urea nitrogen (N)		6,9%
Phosphoric anhydride (P₂O₅) Total		6%
Phosphoric anhydride (P₂O₅)	Soluble in neutral ammo- nium citrate and in water	6%
Potassium oxide (K ₂ 0)	Soluble in water	6%
Sulfuric anhydride (SO₃)	Soluble in water	5%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 10%)	7,0	
Conducibility E.C. µS/cm (1‰)	870	
Specific Weight	1,25	
WAY OF USE	345	
WAT OF OSC	FERTIGATION	

PACKAGING: 20 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit, Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	From vegetative restart every 20 days	1st application: 80 kg From 2nd application: 40 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	From vegetative restart every 20 days	1st application: 80 kg From 2nd application: 40 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From post-transplanting every 20 days	1st application: 80 kg From 2nd application: 40 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From post-transplanting every 20 days	1st application: 80 kg From 2nd application: 40 kg
Flowers and Ornamentals	From post-transplanting every 20 days	1st application: 80 kg From 2nd application: 40 kg



GEOSAN L

GEOSAN L is a liquid fertilizer, suitable for fertigation, characterized by a nutritive and bio-strengthening activity in the rhizosphere. This particular formulation maximises the polyphenol complexing properties with the effect to promote root growth and nutrient uptake, also in soils affected by exhaustion.

Moreover the polyphenolic complex improves soil's structure, the acidification of soils with excessive pH and prevents salinity-related damages.

Thanks to the stimulating activity on the development of the useful microflora (microbic antagonists), **GEOSAN L** limits the proliferation of damaging pathogenic agents and contributes to limit the development and multiplication of (phytophagous) nematodes, which are responsible for plant root damage.

Thanks to the contribution in calcium and magnesium, regular applications of **GEOSAN L** throughout the crop cycle improve soil vitality and promote a vigorous development of the crop, even in saline soils.

IMPROVES ROOT SYSTEM DEVELOPMENT PREVENTS ISSUES RELATED TO HIGH SALINITY

IMPROVES RESISTANCE TO ROOT PARASITES

COMPOSITION		
Calcium oxide (CaO)	Soluble in water	8,5%
Magnesium oxide (MgO)	Soluble in water	1,5%

PHYSICO-CHEMICAL CHARACTERISTICS	
LIQUID	
pH (sol 10%)	3,5
Conducibility E.C. µS/cm (1%)	960
Density (g/cm³)	1,41
WAY OF USE	7 4 5
WAT OF OSC	FERTIGATION

PACKAGING: 20 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit, Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	From pre-flowering every 20 days	1st application: 80 kg From 2nd application: 40 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	From pre-flowering every 20 days	1st application: 80 kg From 2nd application: 40 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From pre-flowering every 20 days	1st application: 80 kg From 2nd application: 40 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From pre-flowering every 20 days	1st application: 80 kg From 2nd application: 40 kg
Flowers and Ornamentals	From post-transplanting every 20 days	1st application: 80 kg From 2nd application: 40 kg





GEOSAN PS NPK 4-0-8



GEOSAN PS NPK 4 0 8 is a powder soluble fertilizer, suitable for fertigation, characterized by a nutritive and bio-strengthening activity in the rhizosphere. This particular formulation maximises the polyphenol complexing properties with the effect to promote root growth and nutrient uptake, also in soils affected by exhaustion. Moreover the polyphenolic complex improves soil's structure, the acidification of soils with excessive pH and prevents salinity-related damages.

Thanks to the stimulating activity on the development of the useful microflora (microbic antagonists), **GEOSAN PS NPK 4 0 8** limits the proliferation of damaging pathogenic agents and contributes to limit the development and multiplication of (phytophagous) nematodes, which are responsible for plant root damage. Regular applications improve soil's vitality and promote crop development.

IMPROVES ROOT SYSTEM DEVELOPMENT CONTRASTS SOIL EXHAUSTION IMPROVES RESISTANCE TO ROOT PARASITES

COMPOSITION		
Total nitrogen (N)		4%
Organic Nitrogen (N)		4%
Potassium oxide (K20)	water-soluble	8%
Organic Carbon (C) biological origin		12%

PHYSICO-CHEMICAL CHARACTERISTICS	
SOLUBLE POWDER	
pH (sol 10%)	4,6
Conducibility E.C. µS/cm (1‰)	365
WAY OF USE	7 4 7
WAT OF OSC	FERTIGATION

PACKAGING: 10 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit, Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	From vegetative restart every 20 days	1st application: 50 kg From 2nd application: 25 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	From vegetative restart every 20 days	1st application: 50 kg From 2nd application: 25 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From post-transplanting every 20 days	1st application: 50 kg From 2nd application: 25 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From post-transplanting every 20 days	1st application: 50 kg From 2nd application: 25 kg
Flowers and Ornamentals	From post-transplanting every 20 days	1st application: 50 kg From 2nd application: 25 kg









BIOACTIVATED LINE

This is a range of products that groups together Mycorrhiza, soil bacteria and Trichoderma, in a **microgranular** formulation (created to support the plant in its growing phases) which increases the plant's nutrients and water uptake capacity and triggers the production of **phytostimulating** compounds that have an antagonist activity against various pathogens.

The **synergistic activity** of the various microorganisms determines:

- Greater volume of soil reached by the roots
- Better solubilization of nutritive compounds
- Immediate availability of nutritive substances
- Increase in vegetative lushness
- Improved absorption capacity of mineral elements
- Higher plant resistance to abiotic stress (drought, high and low temperatures)
- Tolerance to soil and climate unfavorable conditions
- Colonization of ecological niches before the arrival of potentially unwanted microorganisms

The products of the **bioactivated line** are fundamental for the maintenance and regeneration of soil microbiological biodiversity balances.

The **BIOACTIVATED LINE** includes:

NEMASPOR GR 1036 MICOPLAS GR SOIA



NEMASPOR GR 1036



NEMASPOR GR 1036 is the solution that combines a microgranular formulation, suitable to support the plant in its early growing stages, with the presence of Mycorrhizae, soil bacteria and Trichoderma. These increase plant's nutrient and water uptake capacity, and triggers the production of phytostimulating compounds that exert an antagonistic activity against various pathogens.

The synergistic activity of the various microorganisms determines:

- greater volume of soil reached by the roots
- improved solubilisation of nutritive compounds
- immediate availability of nutrients
- increased vegetative growth
- improved absorption capacity of mineral elements
- higher plant resistance to abjotic stress (drought, high and low temperatures)
- tolerance to soil and climate unfavourable conditions
- colonization of ecological niches before the arrival of any unwanted microorganisms

The application of **NEMASPOR GR 1036** allows to maintain and regenerate soil microbiological biodiversity balances.

ENRICHES THE MICROBIAL POPULATION OF THE RHIZOSPHERE

PROMOTES THE SOLUBILIZATION OF THE **FLEMENTS**

PROVIDES NUTRIENTS TO THE SOIL

PROMOTES RHIZOGENESIS AND ROOT **ABSORPTION**

SUPPORTS PLANT DEVELOPMENT IN ADVERSE CONDITIONS

COMPOSITION	
Glomus spp.	0,02% p/p
Bacillus spp.	2x10e6 ufc/g
Bacillus megaterium	
Bacillus pumilus	
Bacillus subtilis/methylotrophycus	
Trichoderma harzianum	1x10e⁵ ufc/g

PHYSICO-CHEMICAL CHARACTERISTICS		
MICROGRANULAR		
pH (sol 10%)	5,7	
Conducibility E.C. µS/cm (1‰)	655	
Peso Specifico	0,88	
Granulometry	0,8-1,2 mm	
WAY OF USE	<u>::</u> 	
5. 555	SOIL	

PACKAGING: 15 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit, Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	At transplanting or at vegetative restart	50 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	At transplanting or at vegetative restart	50 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	Localized at transplanting/sowing	50 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	Localized at transplanting/sowing	50 kg
Flowers and Ornamentals	Localized at transplanting/sowing	50 kg



MICOPLAS GR SOIA



MICOPLAS GR SOIA is a microgranular fertilizer created to support soybeans from the early stages of seed germination. Characterized by a high content of readily usable phosphorus and the presence of zinc, MICOPLAS GR SOIA has an immediate "starter" effect, favoring the formation of an abundant root system.

The presence of an inoculum of Rizobium spp. promotes the formation of abundant root nodules. Molybdenum, then, promotes the synthesis of nitrogenase and stimulates the activity of the bacteria, significantly improving crop absorption of atmospheric nitrogen.

The application of **MICOPLAS GR SOIA** at sowing, creates an optimal environment at the seed level for root development and for abundant nodules formation that will support the plant throughout the cycle, preparing it for high yields.

IMMEDIATE STARTER EFFECT

SUPPORTS RHIZOGENESIS AND ROOT ABSORPTION

PROMOTES THE FORMATION OF ABUNDANT ROOT NODULES

FAVORS A BALANCED DEVELOPMENT OF THE CROP

COMPOSITION	
Glomus spp.	0,004% р/р
Rhizobium spp.	4x10e ⁷ ufc/g
Trichoderma harzianum	1x10e6 ufc/g

PHYSICO-CHEMICAL CHARACTERISTICS		
MICROGRANULAR		
pH (sol 10%)	5,7	
Conducibility E.C. µS/cm (1‰)	655	
Peso Specifico	0,88	
Granulometry	0,8-1,2 mm	
WAY OF USE	<u>::</u> ::::::::::::::::::::::::::::::::	
5. 552	SOIL	

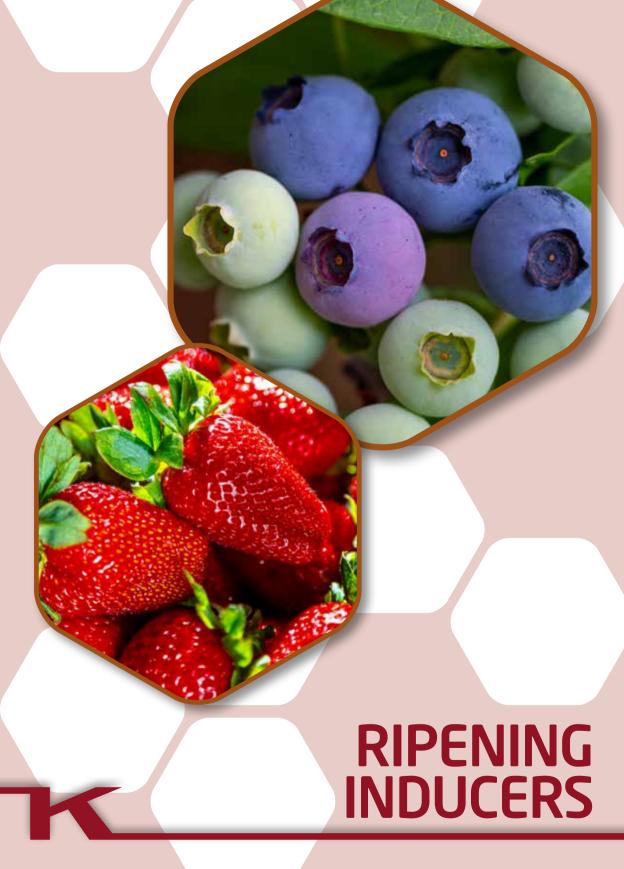
PACKAGING: 15 Kg

CROP APPLICATION TIME DOSE/HECTARE*
Soybeans Localized at sowing 30-60 kg

Soybean plants and nodules with nitrogen-fixing bacteria (*Rhizobium spp.*)



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact out Technical Service for the correct application on specific soils and under specific climate conditions.







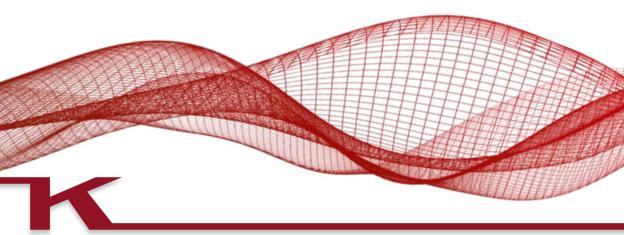
Ripening is a particularly delicate phase for fruits. At this phase the activation of complex metabolic processes sets off the changes in taste and compactness, thus making the fruit edible.

This moment is characterized by high energetic needs and requires a right balance between the vegetative and reproductive apparatuses to obtain the utmost, in terms of quality. At this phase the plant must be supported with specific products.

K-Adriatica's **RIPENING INDUCERS** line includes a range of products for both foliar application and fertigation. Thanks to the high potassium content, alone or in combination with different rates of phosphorus (1:1,3; 1:10) and with or without microelements, these products promote the plant's balanced and robust development without incurring in excessive vigour. They improve output quality parameters such as: color, taste, sugar content, aroma, shelf-life and precocity.

K-Adriatica's RIPENING INDUCERS line include:

BIO-BRIX HYDRO KOMBY 40 POLIFILL PK ALPHA 21-27 FILL PK PLUS FILL BRIX SPECIAL PK 6-60 FILL K 40 + 4MgO



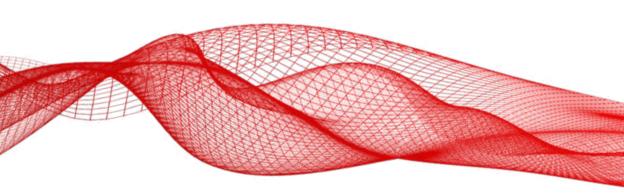
THE ROLE OF POTASSIUM IN FRUIT RIPENING

Potassium is absorbed by the plants in significant quantities, sometimes even higher than nitrogen.

It performs a fundamental role in carbohydrates' synthesis and translocation, in regulating the tissues' turgor and in transpiration. It can also be found in high quantity in meristematic tissues where it exerts its role in cell division activity.

Potassium plays another fundamental role in the fruits' final quality. During the last ripening phases potassium boosts **photosynthesis** with a direct effect on the increase of **sugar content** and, indirectly, protein. Harvested fruit has better taste and improved texture, thus allowing for prolonged **shelf-life** in post-harvest when important product losses occur, especially on peaches and apricots. Its beneficial effects are particularly appreciated on stone fruits, kiwifruit and grapes.

Kiwifruit in particular, when given the right amount of potassium, produce thick textured and more resisting fruits with excellent sugar and organoleptic quality levels suitable to satisfy demanding market expectations. On wine grapes , the metabolic processes enhanced by potassium maximize sugar content and a multitude of substances that make wines more appreciated.





BIO-BRIX

BIO-BRIX is the ORGANIC solution that is formulated to improve the fruits' ripening process and to prepare the plant to its vegetative rest.

BIO-BRIX, which must be applied at the crop's final phase, promotes sugar accumulation in the fruits, thus increasing its dry matter and its shelf-life.

Its organic component, together with the important magnesium content, supports photosynthesis through to the crops' final phases, favoring the accumulation of reserve substances.

Moreover, the high potassium content improves the lignification process of the branches and protects the vegetative and floral tips from returns of cold weather.

FAVORS THE ACCUMULATION OF SUGAR IN THE FRUITS

INCREASES THE CONTENT OF DRY MATTER PREPARES THE PLANT FOR ITS VEGETATIVE REST

COMPOSITION		
Total nitrogen (N)		3%
Organic nitrogen (N)		3%
Organic Carbon (C), biological origin		7,5%
Potassium oxide (K₂O)	Soluble in water	33%
Magnesium oxide (MgO)	Soluble in water	3%
Sulfuric anhydride (SO₃)	Soluble in water	33%
Manganese (Mn)	Soluble in water	0,1%
Molybdenum (Mo)	Soluble in water	0,05%
Zinc (Zn)	Soluble in water	0,3%

PHYSICO-CHEMICAL CHARACTERISTICS	
SOLUBLE POWDER	
pH (sol 1%)	4,0
Conducibility E.C. µS/cm (1‰)	1430
WAY OF USE	
TIME OF OSC	FOLIAR

PACKAGING: 5 - 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes and Kiwifruit	From pre-veraison (change of color) to ripening	4-5 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	From pre-veraison (change of color) to ripening	4-5 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From pre-veraison (change of color) to ripening	4-5 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	From pre-veraison (change of color) to ripening	4-5 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From pre-veraison (change of color) to ripening	4-5 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From pre-veraison (change of color) to ripening	4-5 kg



HYDRO KOMBY 40

HYDRO KOMBY 40 is the nutritional solution that is applied to the roots to improve product quality parameters like: uniformity, color, taste, sugar level, aromas, shelf-life and precocity.

The specific phosphorus and potassium ratio and the presence of chelated microelements (to prevent damaging deficiencies that could undermine production) make HYDRO KOMBY 40 the ideal product to guide and support the crops' development and production targets, from fruit-set to ripening.

It is necessary even when excessive development must be checked or when growth must be forcibly blocked.

IMPROVES FRUIT UNIFORMITY AND SIZE IMPROVES BRIX DEGREE LEVELS REDUCES VEGETATIVE VIGOUR

COMPOSITION		
Phosphoric Anyhidride (P₂O₅)	Soluble in neutral ammonium citrate and in water	18%
Potassium oxide (K₂O)	Soluble in water	22%
Iron (Fe)	Soluble in water	0,02%
Iron (Fe)	Chelated with EDTA	0,02%
Manganese (Mn)	Soluble in water	0,02%
Manganese (Mn)	Chelated with EDTA	0,02%
Zinc (Zn)	Soluble in water	0,01%
Zinc (Zn)	Chelated with EDTA	0,01%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	9,1	
Conducibility E.C. µS/cm (1‰)	798	
Density (g/cm³)	1,33	
WAY OF USE	3 6 5	
Will of OSC	FERTIGATION	

PACKAGING: 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes and Kiwifruit	To improve size: 2 applications from fruit enlargement, every 10-15 days interval To improve ripening: 2 applications from pre-veraison (change of color), every 10-15 days	25-50 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	2-3 applications from fruit enlargement, every 10-15 days	25-50 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	To improve size: 2 applications from fruit enlargement, every 10-15 days interval To improve ripening: 2 applications from pre-veraison (change of color), every 10-15 days	25-50 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	From pre-veraison (change of color), every 10-15 days	25-50 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From pre-veraison (change of color), every 10-15 days	25-50 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From pre-veraison (change of color), every 10-15 days	25-50 kg

NOTE: To improve fruit texture it is advisable to apply HYDRO KOMBY 40 together with KAMAB 26 during the fruit growing phases.



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary.
All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.

POLIFILL PK ALPHA 21-27

POLIFILL PK ALPHA 21-27 is a nutritional solution containing potassium, phosphorus and chelated microelements to be applied as foliar applications; it stimulates the fruits' enlargement and creates the perfect conditions for the enhancement of their organoleptic properties (color, taste, aroma).

By slowing down the main biochemical mechanism that causes vegetative vigour, **POLIFILL PK ALPHA 21-27** favors the lignification process and prepares the plant for its winter rest.

PROMOTES A UNIFORM RIPENING INCREASES BRIX AND IMPROVES FRUIT COLORING FAVORS THE PLANT'S LIGNIFICATION PROCESS

COMPOSITION		
Phosphoric Anyhidride (P₂O₅)	Soluble in neutral ammonium citrate and water	21%
Potassium oxide (K₂O)	Soluble in water	27%
Boron (B)	Soluble in water	0,1%
Iron (Fe)	Soluble in water	0,02%
Iron (Fe)	Chelated with EDTA	0,02%
Manganese (Mn)	Soluble in water	0,02%
Manganese (Mn)	Chelated with EDTA	0,02%
Zinc (Zn)	Soluble in water	0,1%
Zinc (Zn)	Chelated with EDTA	0,1%

PHYSICO-CHEMICAL CHARACTERISTICS	
LIQUID	
pH (sol 1%)	8,3
Conducibility E.C. µS/cm (1‰)	950
Density (g/cm³)	1,5
WAY OF USE	
	FOLIAR

PACKAGING: 6 - 12 Kg

CROP	APPLICATION TIME	DOSE/ HECTARE*
Grapes and Kiwifruit	From post-fruit set to pre-veraison (change of color)	3-6 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	From post-fruit set to pre-veraison (change of color)	3-6 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From post-fruit set to pre-veraison (change of color)	3-6 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	At fruit enlargement	3-6 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From fruit enlargement to pre-veraison (change of color)	3-6 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From fruit enlargement to pre-veraison (change of color)	3-6 kg



FILL PK PLUS

With its specific PK 1:1,3 ratio, **FILL PK PLUS** is formulated to favor fruit and wood ripening, to contain the vegetation development and to prevent undesired early sprouting.

Its application during the final phases of the crop cycle prepares the plant to produce and accumulate dry matter in order for fruit bearing plants to be ready for winter rest.

IMPROVES FRUIT QUALITY CONTAINS VEGETATION LUSHNESS PREPARES PLANTS FOR THE WINTER REST

COMPOSITION		
Phosphoric anhydride (P₂O₅)	Soluble in neutral ammonium citrate and water	40%
Potassium oxide (K₂O)	Soluble in water	52%
Low chlorine content		

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)	9,0	
Conducibility E.C. µS/cm (1‰)	1200	
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 5 - 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes and Kiwifruit	From pre-veraison (change of color) to ripening	4-5 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	From pre-veraison (change of color) to ripening	4-5 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From pre-veraison (change of color) to ripening	4-5 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	At the fruit enlargement phase	4-5 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From fruit development to pre-veraison (change of color)	4-5 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From fruit development to pre-veraison (change of color)	4-5 kg



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary.
All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.

FILL BRIX SPECIAL PK 6-60

FILL BRIX SPECIAL PK 6-60 is a high content potassium formulation. When applied at the right phenological phase, it prevents excessive vegetative lushness and it improves the qualitative parameters (sugar content and color) in fruit and vegetable production.

On fruit trees it improves the lignification process, conferring strength and resistance to stress.

IMPROVES FRUIT QUALITY CONTROLS EXCESSIVE VEGETATIVE GROWTH STRENGTHENS THE PLANT

COMPOSITION		
Phosphoric Anyhidride (P₂O₅)	Soluble in neutral ammonium citrate and water	6%
Potassium oxide (K₂O)	Soluble in water	60%
Molybdenum (Mo)	Soluble in water	0,1%
Zinc (Zn)	Soluble in water	0,05%
Zinc (Zn)	Chelated with EDTA	0,05%

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)	10,7	
Conducibility E.C. µS/cm (1‰)	1625	
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 5 - 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes and Kiwifruit	2-3 applications from fruit development to harvest	4-5 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	2-3 applications from fruit development to harvest	4-5 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	2-3 applications from fruit development to harvest	4-5 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	2-3 applications from fruit development to harvest	4-5 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	3-4 applications from fruit development to harvest	4-5 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	3-4 applications from fruit development to harvest	4-5 kg



FILL K 40 + 4 Mg0

FILL K 40 + 4 Mg0 is the recommended choice when both ripening and vegetative growth are needed at the same time. When applied at the cycle's final phases, the high potassium content favors ripening and improves fruit quality.

FAVORS A BALANCED RIPENING PREVENTS UNDESIRED VEGETATIVE DISRUPTION

COMPOSITION		
Total nitrogen (N)		3%
Azoto (N) nitrico		3%
Potassium oxide (K20)	water-soluble	40%
Ossido di Magnesio (MgO)	water-soluble	4%
Boron (B)	water-soluble	0,01%
Rame (Cu)	water-soluble	0,01%
Rame (Cu)	chelato con EDTA	0,01%
Manganese (Mn)	water-soluble	0,01%
Manganese (Mn)	chelato con EDTA	0,01%
Molybdenum (Mo)	water-soluble	0,004%
Zinco (Zn)	water-soluble	0,01%
Zinco (Zn)	chelato con EDTA	0,01%
A basso tenore di Cloro		

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)	3,1	
Conducibility E.C. µS/cm (1‰)	1520	
WAY OF USE		
	FOLIAR	

PACKAGING: 5 - 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes and Kiwifruit	From pre-veraison (change of color) to ripening	4-5 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	From pre-veraison (change of color) to ripening	4-5 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From pre-veraison (change of color) to ripening	4-5 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	From pre-veraison (change of color) to ripening	4-5 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From pre-veraison (change of color) to ripening	4-5 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From pre-veraison (change of color) to ripening	4-5 kg



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary.
All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



MESO AND MICROELEMENTS









MESO AND MICROELEMENTS

MESOELEMENTS (SECONDARY PLANT NUTRIENTS)

Calcium, Magnesium and Sulfur are nutrients that plants need in quantities in between those of trace and primary nutrients (also known as macronutrients). The products of the **MESOELEMENTS line** are formulated to provide for those elements which are considered secondary but necessary to the plant's **harmonic development**. In case one of those elements is either missing or in an unbalanced ratio with other elements, plants show deficiency symptoms on fruit and flowers. In this group of products, mesoelements are available both singularly or **combined** with one another, so that they can provide a more complete support to the plant.

NOTE: The products of the **MESOELEMENTS line** satisfy all the calcium and magnesium requirements. Sulfur is present as a raw material in many compounds. A standard nutritional program can therefore cover the sulfur needs in most crops.

MICROELEMENTS (TRACE NUTRIENTS)

K

Microelements are **essential** for the plant's harmonic growth even in the smallest quantities. They are involved in all the physiological processes whose correct functioning is important to obtain from the crop the highest productivity and the best quality. Their deficiency can lead to severe physiological disorders. This can be attributed to either a lack of the nutrient in the soil (direct or primary physiological disorder) or to a little availability of the nutrient in the soil (soil's pH and antagonism between the elements) that might be made unavailable due to the soil pH (indirect or conditioned physiological disorder). In both cases early treatments guarantee the best results.

The main trace nutrients are: Manganese, Zinc, Molybdenum, Boron, Copper and Iron. In the MICROELEMENTS line, microelements are available both singularly or combined with one another, so that they can provide a more complete support to the plant.

K-Adriatica's MESO and MICROELEMENTS line include:

MESOELEMENTS	Calcium	BUTTERFILL K BUTTERMIX Ca Mg ZINCAL Mo Ca NITROCAL L IDROCAL Mg AGROMAG 16 COMPLEX
	Magnesium	
Zinc	Manganese	AGROMAN 6 L
	Zinc	AGROZIN 6 L
	Molybdenum	AGROMOL 5 L
	Boron	AGROBOR 11 L BORAMIN Mo
	Copper	AGRORAM 16 COMPLEX
	Iron	SEQUIFILL 6.0 T SS KOLFER CLOROFILLA K K-FERRO
MICROELEMENT BLENDS		AGROVIT LS GREEN MIX Z

RIPENING INDUCERS

INTERACTIONS BETWEEN NUTRIENTS

Some deficiencies (or excesses in some cases) can be caused not by the lack of a single element, but rather by the wrong combination of other nutrient substances in the soil or in the plant or both.

Knowing how meso- and micronutrients and micro- and macronutrients affect one another's behaviour in terms of antagonism, synergism, inhibition and precipitation, can be helpful.

Relations between micro and macro nutrients

	N	P	K	Ca	Mg	S	Fe	Мо	CI	Na	В	Mn	Cu	Zn
N		S	A		S	S		S	A		A		A	
Р	S		A	I			Р	S					A	
K	A	A		A	A	S	S			A	A	S		
Ca		I	A		A		A			A	- 1	I		
Mg	S		A	A						A				
S	S		S						A			S	S	
Fe		P	S	A								A	A	A
Мо	S	S											A	
CI	A					A								
Na			A	A	A									
В	A		A	I										
Mn			S	I		S	A						A	A
Cu	A	A				S	A	A				A		
Zn		I		I			A					A		

A= Antagonism I= Inhibition P= Precipitation S= Synergy or positive interaction









Its role in the plant:

Calcium is an essential element of plants' cell walls and is directly responsible for the consistency of vegetative and reproductive tissues (flowers and fruits) thickness. Calcium increases tissues' mechanical resistance at ripening, during manipulation, transport and storage.

Deficiency causes:

In spite of Calcium being present in most soils, plants can't really find all the Calcium they need. Insufficient supply of calcium in the (sandy and unstable) soil, too acidic pH levels and excessive sulfur and/or phosphorus content that bind calcium to form insoluble compounds (calcium sulphate and dicalcium or tricalcium phosphate) are among the main causes of calcium deficiency. Other causes of calcium deficiency could be linked to the presence of Nitrogen in the form of Ammoniacal ion (NH₄*), Potassium in the form of ion (K*) and Magnesium (Mg^{2*}).

Deficiency symptoms:

Calcium deficiency symptoms appear on young leaves and on terminal shoots as it is a little mobile element in the plant. It must be periodically applied at every new vegetative emission, at every flowering and at every fruit-set in fruiting horticultural species.

On orchards the physiological plant disorders caused by calcium deficiency (bitter pit in pome fruits, lenticellosis, vitrescence, stem necrosis in some grape varieties, lettuce "tip burn", poinsettia edge) can be seen on plants which are unbalanced with excessive vegetative vigour and scant production.

K-Adriatica recommends:

BUTTERFILL K
BUTTERMIX Ca Mg
ZINCAL Mo Ca
NITROCAL L
IDROCAL Mg

BUTTERFILL K



BUTTERFILL K is an enhanced solution of calcium chloride. Formulated with the innovative KK technology, **BUTTERFILL K** not only efficiently delivers calcium to plant tissues, but more importantly, it promotes an even distribution of calcium throughout the fruit. This is very important because the main calcium-related physiological disorders in plants are not due to deficiency but to inefficient distribution of the element in organ tissues.

Regular applications of **BUTTERFILL K** control bitter pits, cork spot, and internal decay in apples, as well as apical rot in tomatoes and other fruit and vegetable crops. It also helps prevent physiological **FOLIAR** rot in leafy vegetables and improves the quality of vegetables.

TREATS CALCIUM DEFICIENCY PHYSIOPATHOLOGIES

COMPOSITION

IMPROVES FRUIT FIRMNESS AND SHELF LIFE

ALLOWED IN ORGANIC AGRICROP ON APPLE TREES

Calcium oxide (CaO)	Soluble in water		16,5%	
PHYSICO-CHEMICAL CHARACTERI	ISTICS			
LIQUID				
pH (sol 1%)			5,0	
Conducibility E.C. µS/cm (1‰)			910	
Density (g/cm³)			1,33	
WAY OF USE		₹		
		F0	LIAR	

PACKAGING: 12 - 25 Kg

CROP	APPLICATION TIME	DOSE/ HECTARE*
Grapes	At flowers fading, 2 applications every 10-15 days Repeat 15-20 days before veraison (change of color)	4-6 kg
Pome fruits (apple, pear, quince)	From fruit diameter up to 20 mm to veraison (change of color), 5-8 applications every 10-12 days	4-6 kg
Kiwifruit	From fruit diameter up to 40 mm, 4-5 applications every 10-15 days	4-6 kg
Stone fruits (peach, nectarine, apricot, cherry, plum)	From flowers fading, 3-5 applications every 10-15 days	4-6 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From pre-flowering, 3-4 applications every 10-12 days	4-6 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	Starting 8-10 days after transplanting, 3-4 applications every 10-12 days	4-6 kg
Other vegetables (broccoli, cabbage, cauliflower, onion, garlic, leek, fennel, carrot, potato)	From developed plant, 3-4 applications every 10-12 days	4-6 kg

THE IMPORTANCE OF CALCIUM FOR QUALITY APPLES

Calcium plays, in apples, a key role in ensuring a high standard of production quality, but also in preventing some of the major **physiopathologies** that appear in the post-harvest stage such as bitter pitting, internal disintegration, and reheating. Proper calcium management is essential to control these disorders, especially for susceptible varieties. Adequate **Calcium** concentration in the fruit preserves the integrity and stability of the cell membrane and imparts greater strength to the cell wall, thereby improving fruit **firmness** and reducing susceptibility to diseases in the field and to postharvest physiopathologies.

Although a large proportion of the **Calcium** present in fruit comes from root uptake, foliar treatments based on **Calcium Salts**, starting early in fruit development, have been shown to be effective in reducing the incidence of physiological disorders that affect yield quality.

Calcium in the form of **Calcium Chloride** is among the most recommended Salts because of its proven efficacy and lower cost.

Of note, **Calcium** is involved in more than thirty economically important crop physiological disorders. Most of these plant physiological disorders are not caused by calcium deficiency, but rather by improper **distribution** of the element in organ tissues.

WARNING: Never mix fertilizers containing Phosphorus and/or Sulfates with fertilizers containing Calcium in the same tank/container. In the presence of irrigation water containing high Phosphorus content, acidify before using fertilizers containing Calcium.



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.

BUTTERMIX Ca Mg

BUTTERMIX Ca Mg is a concentrated solution of very pure Calcium and Magnesium, whose specific action is synergized by the presence of an organic matrix containing amino acids and trace elements.

BUTTERMIX Ca Mg is the formulation that treats and prevents the main physiopathologies related to nutritional disorders caused by Calcium and Magnesium deficiency. These physiopathologies occur during the crucial period of fruit growth and are characterized by desiccation, necrosis, cracking and browning. They affect both horticultural crops such as tomato, melon, watermelon, lettuce, celery and carrot, and fruit crops such as Pomaceae, Drupaceae, Grapevine and Actinidia.

Regular application of BUTTERMIX Ca Mg remains the most effective means to be adopted for the prevention and treatment of such occurrences.

PREVENTS PHYSIOPATHOLOGIES RELATED TO CALCIUM/MAGNESIUM DEFICIENCY

IMPROVES PRODUCTION QUALITY INCREASES SHELF LIFE

ALLOWED IN ORGANIC AGRICROP

COMPOSITION		
Organic Nitrogen (N)		3,4%
Organic Nitrogen (N) solubile		3%
Organic carbon (C) of biological origin		10%
Calcium Oxide (CaO)	water-soluble	10%
Magnesium Oxide (MgO)	water-soluble	2%
Boron (B)	water-soluble	0,05%
Iron (Fe)	water-soluble	0,2%
Iron (Fe)	chelated with EDTA	0,2%
Molybdenum (Mo)	water-soluble	0,005%
Zinc (Zn)	water-soluble	0,05%
Zinc (Zn)	chelato con EDTA	0,05%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	6,6	
Conducibility E.C. µS/cm (1‰)	790	
Density (g/cm³)	1,34	
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 6 - 12 - 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapevine	At scamming, 2 applications spaced 10-15 days apart. Repeat 15- 20 days before veraison	4-6 kg
Drupaceae (peach, nectarine, apricot, cherry, plum)	From fruit set evident until veraison, treatments every 10-12 days	4-6 kg
Actinidia	From post-allegation, 4-5 treatments every 10-15 days	4-6 kg
Strawberry and Small fruits (blueberry, raspberry, blackberry, currant)	From post-allegation, 2-3 treatments every 10-12 days	4-6 kg
Other vegetables (broccoli, cabbage, cauliflower, onion, garlic, leek, fennel, carrot, potato)	From developed plants, 3-4 treatments every 10-12 days	4-6 kg
Leaf vegetables (lettuce, escarole, chicory, radicchio, arugula, celery, spinach)	From 8-10 days after transplanting, 3-4 treatments spaced 10-12 days apart	4-6 kg
Fruit vegetables (tomato, bell bell pepper, eggplant, melon, watermelon, cucumber, zucchini, squash)	From pre-bloom, 3-4 treatments spaced 10-12 days apart	4-6 kg
Poinsettia	From bract formation, 2-3 treatments every 8-10 days	2-4 kg

WARNING: Never mix fertilizers containing Phosphorus and/or Sulfates with fertilizers containing Calcium in the same

tank/container. In the presence of irrigation water containing high Phosphorus content, acidify before using fertilizers containing Calcium.



The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs.

You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.





ZINCAL Mo Ca is a formulation that promotes an intense and balanced vegetative recovery.

ZINCAL Mo Ca must be applied during the first phases at the end of dormancy and, thanks to the synergy between calcium and zinc, it stimulates bud growth. The zinc supplied with the product triggers the synthesis of tryptophan and, as a consequence, it naturally increases the auxins levels.

The latter, in addition to promoting fruit and buds' growth, favors the xylem lignification, thus improving calcium uptake with an increase in tissue mechanical resistance and of the quantity of calcium translocated to the developing fruits.

Molybdenum, finally, improves the absorption process and the use of nitrogen and it enables the optimisation of the photosynthetic process.

POSITIVELY INFLUENCES SHOOT AND FRUIT GROWTH

INCREASES THE MECHANICAL STRENGTH OF TISSUES

OPTIMIZES THE PHOTOSYNTHETIC PROCESS

IMPROVES NITROGEN METABOLISM

ALLOWED IN ORGANIC AGRICROP

COMPOSITION		
Calcium oxide (CaO)	Soluble in water	10%
Molybdenum (Mo)	Soluble in water	0,05%
Zinc (Zn)	Soluble in water	5%

PHYSICO-CHEMICAL CHARACTERISTICS	
LIQUID	
pH (sol 1%)	6,8
Conducibility E.C. µS/cm (1‰)	820
Density (g/cm³)	1,41
WAY OF USE	Ø
	FOLIAR

PACKAGING: 1 - 6 - 12 Kg

CROP	APPLICATION TIME	DOSE/ HECTARE*
Grapes, Citrus (orange, lemon, tangerine, clementine, bergamot)	At vegetative restart, at pre-flowering and pre-veraison (change of color)	4-6 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From sprouting to pre-flowering; to be repeated from fruit diameter up to 20 mm to veraison (change of color)	4-6 kg
Kiwifruit	From sprouting to pre-flowering; to be repeated from fruit diameter up to 20 mm to veraison (change of color)	4-6 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	From post-fruit set, 2-3 applications every 10-12 days	4-6 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	At post-emergence or at transplanting, to be repeated at pre- and post- flowering and at pre-harvest	4-6 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases or at the appearance of deficiency symptoms	4-6 kg
Flowers and Ornamentals	At transplanting or repotting and at pre-flowering	4-6 kg

WARNING: : Never mix fertilizers containing Phosphorus and/or Sulfates with fertilizers containing Calcium in the same tank/container. In the presence of irrigation water containing high Phosphorus content, acidify before using fertilizers containing Calcium.





NITROCAL L

With **NITROCAL** L we aim at preventing and curing those physiological plant disorders affecting some horticultural and fruit crops that are related to thermo-water imbalances which influence the calcium uptake.

NITROCAL L has a curative and a preventative efficacy against calcium deficiencies that are manifested by edge necrosis, apical necrosis, cracking and browning that are typical of some horticultural and fruit crops. This formulation brings calcium readily available both through the roots and through the leaves.

TREATS CALCIUM DEFICIENCY PHYSIOPATHOLOGIES

IMPROVES FRUIT FIRMNESS AND SHELF LIFE

COMPOSITION		
Total nitrogen (N)		8%
Azoto (N) nitrico		8%
Ossido di Calcio (CaO)	water-soluble	16%

PHYSICO-CHEMICAL CHARACTERISTICS			
LIQUID			
pH (sol 1%)	5,3		
Conducibility E.C. µS/cm (1‰)	860		
Density (g/cm³)	1,48		
WAY OF USE	Ø		
	FOLIAR		

PACKAGING: 6 - 12 - 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes	At flowers fading, 2 applications every 10-15 days To be repeated 15-20 days before veraison (change of color)	4-5 kg
Pome fruits (apple, pear, quince)	From fruit diameter up to 20 mm to veraison (change of color), 5-8 applications every 10-12 days	4-5 kg
Stone fruits (peach, nectarine, apricot, cherry, plum)	From flowers fading to veraison (change of color), 3-5 applications every 10-12 days	4-5 kg
Kiwifruit	From post-fruit set, 4-5 applications every 10-15 days	4-5 kg
Strawberries	At pre-flowering; to be repeated from post-fruit set every 10-12 days	4-5 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From pre-flowering, 3-4 applications every 10-12 days	4-5 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	From 8-10 days after transplanting, 3-4 applications every 10-12 days	4-5 kg
Other vegetables (broccoli, cabbage, cauliflower, onion, garlic, leek, fennel, carrot, potato)	From developed plant, 3-4 applications every 10-12 days	4-5 kg

WARNING: Never mix fertilizers containing Phosphorus and/or Sulfates with fertilizers containing Calcium in the same tank/container. In the presence of irrigation water containing high Phosphorus content, acidify before using fertilizers containing Calcium.



IDROCAL Mg

IDROCAL Mg is a calcium and magnesium salts' complex with low-molecular-weight organic acids.

The product is a liquid formulation with a curative and a preventative activity on physiological plant disorders associated to the scarce availability of those two meso-elements.

The organic acids contained therein stimulate root production and, at the same time, they give the "root capillice" a better adaptability to high salinity levels.

TREATS CALCIUM AND MAGNESIUMDEFICIENCY PATHOPHYSIOLOGIES

IMPROVES THE TEXTURE AND SHELF LIFE OF FRUITS

PROMOTES CHLOROPHYLL PHOTOSYNTHESIS

COMPOSITION		
Ossido di Calcio (CaO)	water-soluble	12%
Ossido di Magnesio (MgO)	water-soluble	3%

PHYSICO-CHEMICAL CHARACTERISTICS			
LIQUID			
pH (sol 1%) 5,7			
Conducibility E.C. µS/cm (1%)		730	
Density (g/cm³)		1,29	
WAY OF USE	Ø	747	
	FOLIAR	FERTIGATION	

PACKAGING: 6 -25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*	
CROI	ALL CICATION THIC	FOLIAR	FERTIGATION
Grapes	From pea-sized berries to pre-veraison (change of color), 3 applications or more every 15/20 days	3-5 kg	25-30 kg
Pome fruits (apple, pear, quince)	From fruit diameter up to 20 mm to veraison (change of color), 3-4 applications every 10-15 days	3-5 kg	25-30 kg
Stone fruits (peach, nectarine, apricot, cherry, plum)	From post-fruit set to pre-veraison (change of color)	3-5 kg	25-30 kg
Kiwifruit	From post-fruit set, 3-5 applications every 15-20 days	3-5 kg	25-30 kg
Citrus (orange, lemon, tangerine, clementine, bergamot)	From developed fruit to pre-veraison (change of color), 3 applications or more every 15-20 days	3-5 kg	25-30 kg
Strawberries	At first fruits appearance, 2-3 applications every 10-15 days	3-5 kg	25-30 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From post-fruit set to veraison (change of color), 3-5 applications every 10-15 days	3-5 kg	25-30 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	From 8-10 days after transplanting, 2-5 applications every 10-15 days	3-5 kg	25-30 kg



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.

MAGNESIUM









Magnesium is the key constituent of the chlorophyll molecule, hence playing a fundamental role in photosynthesis. It also presides over the formation of carbohydrates, proteins, lipids and vitamins. It carries phosphorus inside the plant (they are synergic) and it is an antagonist of Potassium and Calcium.

Deficiency causes:

A good part of Magnesium in the soil can be found in the non-exchangeable fraction (primary and secondary minerals). Its mobility depends on the original parent material (mineral) containing its salts and has a varying intensity according to the different factors influencing the disintegration and degradation processes of the parent material. The common crops cultivated in Italy do not normally show particular signs of Magnesium deficiency, as most soils provide the amount requested by the majority of crops.

The cases of deficiency are often related to an excess of either potassium or calcium or both, which affect magnesium uptake at the plant level.

Deficiency symptoms:

Magnesium deficiency symptoms are normally seen on the lower leaves, with a whitening of the interveinal space while the veins remain green. Given its central role in photosynthesis, a potential deficiency of Magnesium reduces the photosynthetic activity and negatively affects the plant's metabolism and growth.



K-Adriatica's recommends: **AGROMAG 16 COMPLEX**



AGROMAG 16 COMPLEX



AGROMAG 16 COMPLEX is a wettable powder formulation with a high Magnesium content, to be used in foliar applications and in fertigation.

In AGROMAG 16 COMPLEX Magnesium, Copper, Manganese and Zinc are bound to one another by a particular organic complex facilitating its rapid and complete absorption, thus preventing and curing Magnesium-related physiological plant disorders and potential micro-nutritional deficiencies or imbalances.

AGROMAG 16 COMPLEX favors photosynthesis, intensifies leaves and fruit color and improves production.

PROMOTES CHLOROPHYLL PHOTOSYNTHESIS

INTENSIFIES LEAF AND FRUIT COLOR IMPROVES PRODUCTION LEVELS ALLOWED IN ORGANIC AGRICULTURE

COMPOSITION		
Magnesium oxide (MgO)	water-soluble	16%
Sulfuric anhydride (SO₃)	water-soluble	30%
Copper (Cu)	water-soluble	0,5%
Manganese (Mn)	water-soluble	1,5%
Zinc (Zn)	water-soluble	1%

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)	5,5	
Conducibility E.C. µS/cm (1‰)	980	
WAY OF USE	Ø	
6. 522	FOLIAR	

PACKAGING: 5 - 25 Kg

CROP	APPLICATION TIME	DOSE/ HECTARE*
Grapes	From flowers fading, 2 applications every 10-15 days; to be repeated 15-20 days before veraison (change of color)	6-8 kg
Pome fruits (apple, pear, quince)	From vegetative restart to fruit diameter up to 40 mm	3-6 kg
Stone fruits (peach, nectarine, apricot, cherry, plum)	From vegetative restart to fruit diameter up to 40 mm	3-6 kg
Kiwifruit, Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	From vegetative restart to fruit diameter up to 40 mm	4-6 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	At post-emergence or at transplanting, to be repeated at pre- and post-flowering	3-6 kg
Leafy vegetables (lettuce, escarole, chicory, radicchio, rocket, celery, spinach)	At early vegetative phases or at the appearance of first deficiency symptoms	3-6 kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	Combined with post-emergence weeding treatment	6-8 kg
Fodder and forage crops (alfalfa, clover, grass)	At early vegetative phases or at the appearance of first deficiency symptoms	6-8 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases or at the appearance of first deficiency symptoms	3-6 kg
Flowers and Ornamentals	At post-emergence or post-transplanting, to be repeated at pre-flowering	3-6 kg





MANGANESE





Its role in the plant:

Being an important enzymatic co-factor, Manganese is involved in the photosynthetic process reaction in which the molecule of water is split into oxygen and hydrogen, and in the final phase of nitrates' reduction. It also plays a role on cell elongation.

Deficiency causes:

Calcareous soils or soils with a pH level higher than 6,5, high iron availability, low Nitrogen concentration, compact and dry soils and high supplies of organic matter are the main environmental factors favoring the outbreak of Manganese deficiency.

Deficiency symptoms:

Main Manganese deficiency symptoms: upward posture of buds and leaves, marginal and interveinal foliar chlorosis in mid-lower leaves, also with necrotic spots and downward curling of foliar edges.



K-Adriatica's recommends: AGROMAN 6 L



AGROMAN 6 L



AGROMAN 6 L is a specific product whose use is aimed at the prevention and the cure of plant physiological disorders related to manganese deficiency.

Manganese is a catalyser of oxidative processes in the plant. It is involved in respiration, photosynthesis and it has a role in controlling auxin metabolism together with other microelements.

It also favors buds fertility, fruit-set and it increases resistance to cold.

TREATS AND PREVENTS MANGANESE DEFICIENCY

ALLOWED IN ORGANIC AGRICROP

COMPOSITION		
Manganese (Mn)	water-soluble	6%
Manganese (Mn)	chelato con EDTA	6%

PHYSICO-CHEMICAL CHARACTERISTICS	
LIQUID	
pH (sol 1%) 6,0	
Conducibility E.C. µS/cm (1‰)	
Density (g/cm³) 1,26	
WAY OF USE	₽
	FOLIAR

PACKAGING: 1 - 6 - 12 Kg

CROP	APPLICATION TIME	DOSE/ HECTARE*
Grapes	At pre-flowering and pea-sized berries, 1-2 applications every 8-10 days	2-3 Kg
Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Kiwifruit	At early vegetative phases, at pre-flowering or at the appearance of first deficiency symptoms, 2-3 applications every 8-10 days	2-3 Kg
Olive	At vegetative restart, 2 applications every 8-10 days	2-3 Kg
Citrus (orange, lemon, tangerine, clementine, bergamot)	At pre-flowering or at the appearance of first deficiency symptoms	2-3 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From early vegetative phases or at the appearance of first deficiency symptoms	2-3 Kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	From early vegetative phases or at the appearance of first deficiency symptoms	2-3 Kg
Beets	At vegetative restart and when leaf canopy meets between the rows, 2 applications every 8-10 days	2-3 Kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From early vegetative phases or at the appearance of first deficiency symptoms	2-3 Kg
Flowers and Ornamentals	At post-emergence or post-transplanting, to be repeated at pre-flowering	2-3 Kg



^{*}The choice of the dose is subordinated to various factors and con be varied when necessary.
All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.









Its role in the plant: Zinc is an essential enzymatic co-factor for plant growth and development metabolism. It has an important role in the synthesis of chlorophyll and it is involved in the synthesis of tryptophan, the latter being an important compound in the synthesis of auxins.

Deficiency causes:

An elevated pH, an excessive presence of bicarbonate, scarce availability of organic matter, high availability of Calcium, Magnesium and Phosphorus and low availability of nitrogen are the main environmental factors leading to Zinc deficiency.

Deficiency symptoms:

Shortening of the internodes, small leaves grouped in bunches, scarce fruit set, spotted foliar chlorosis extending to the veins with bronze shades are the main symptoms of Zinc



K-Adriatica's recommends:

AGROZIN 6 L





AGROZIN 6 L is a specific product with curative and preventative activity on physiological plant disorders associated to zinc deficiency.

This micro-element plays several fundamental roles in plant development.

It is involved in the synthesis of chlorophyll and tryptophan (which in turn triggers auxins synthesis), it stimulates the seed maturation process and it regulates respiration.

TREATS AND PREVENTS ZINC DEFICIENCY ALLOWED IN ORGANIC AGRICRULTUR

COMPOSITION		
Zinc (Zn)	water-soluble	6%
Zinc (Zn)	chelato con EDTA	6%

PHYSICO-CHEMICAL CHARACTERISTICS	
LIQUID	
pH (sol 1%)	6,6
Conducibility E.C. µS/cm (1‰)	166
Density (g/cm³)	1,22
WAY OF USE	₽
	FOLIAR

PACKAGING: 1 - 6 - 12 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	At early vegetative phases or at the appearance of first deficiency symptoms	1-2 Kg
Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Kiwifruit	At early vegetative phases, at pre-flowering, at post-fruit set or at the appearance of first deficiency symptoms, 2-3 applications every 8-10 days	1-2 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	At vegetative restart or at the appearance of first deficiency symptoms	1-2 Kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	At vegetative restart or at the appearance of first deficiency symptoms	1-2 Kg
Beets, Tobacco	At vegetative restart or at the appearance of first deficiency symptoms	1-2 Kg
Industrial crops (tomato, soybeans, sunflower, cotton, sugarcane)	At vegetative restart or at the appearance of first deficiency symptoms	1-2 Kg
Flowers and Ornamentals	At post-emergence or post-transplanting, to be repeated at pre-flowering	1-2 Kg



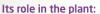


MOLYBDENUM









Molybdenum is a fundamental element for Nitrogen fixating symbiotic bacteria in many leguminous species. It is also an enzymatic co-factor, which plays a major role in the plant Nitrogen metabolism which becomes critical at breeding as it affects pollen quantity and germinability. In some species, i.e.: soybeans, it improves yield of fruits and seeds.

Deficiency causes:

A pH lower than 5 and excessively drained soils are the main environmental factors leading to Molybdenum deficiency.

Deficiency symptoms:

Leaves turning pale green or yellow, marginal and interveinal chlorosis, marginal necrosis and marginal curling are the main symptoms of Molybdenum deficiency.



K-Adriatica's recommends:

AGROMOL 5 L

MOLYBDENUM

AGROMOL 5 L

 $\begin{tabular}{ll} \textbf{AGROMOL 5 L} is a liquid formulation of highly concentrated molybdenum, which is completely absorbed by the crops. \end{tabular}$

Molybdenum plays a fundamental role in plant metabolism as it takes part in the nitrogen's uptake process by acting as cofactor for the nitrate reductase.

It also stimulates root development, promotes cell division and it improves flowering and fruit-set. In leguminous species, molybdenum is a critical element in the activity of symbiotic bacteria.

TREATS AND PREVENTS MOLYBDENUM DEFICIENCY

ALLOWED IN ORGANIC FARMING

COMPOSITION		
Molybdenum (Mo)	water-soluble	5%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	6,8	
Conducibility E.C. µS/cm (1‰)		
Density (g/cm³) 1,1		
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 1 - 6 - 12 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit, Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	At early vegetative phases, at pre-flowering or at the appearance of the first deficiency symptoms	1-2 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From the early vegetative phases or at the appearance of the first deficiency symptoms	1-2 Kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	At early vegetative phases, at pre-flowering or at the appearance of the first deficiency symptoms	1-2 Kg
Beets, Tobacco	At early vegetative phases, at pre-flowering or at the appearance of the first deficiency symptoms	1-2 Kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases, at pre-flowering or at the appearance of the first deficiency symptoms	1-2 Kg
Flowers and Ornamentals	At early vegetative phases, at pre-flowering or at the appearance of the first deficiency symptoms	1-2 Kg



^{*}The choice of the dose is subordinated to various factors and con be varied when necessary.
All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.









Its role in the plant:
Boron plays a key role in reproduction and in particular on pollen germination and flower bud differentiation. It affects the cell wall lignification process by conferring stability and elasticity. It also stimulates the absorption of other cations, such as Calcium, Potassium and Magnesium.

Deficiency causes:A lower than 5,5 or higher than 7 soil pH, sandy and dry soils with low organic matter, a scarce Nitrogen availability and an excessive presence of (natural or added) bicarbonate are the main environmental conditions causing Boron deficiency.

Deficiency symptoms:A thickening of the leaves that may become puckered, interveinal chlorosis, root tip and buds' necrosis, shortened internodes, leaves clustered in bunches, a scarce fruit set, fruit deformation and heart rot (beets) are the main symptoms of boron deficiency.

K-Adriatica's recommends:

AGROBOR 11 L **BORAMIN Mo**



AGROBOR 11 L



AGROBOR 11 L is an ethanolamine Boron-based formulation. This product favors a rapid and complete absorption of the element and its rapid migration inside the plant's tissues.

AGROBOR 11 L has both a preventative and a curative activity on physiological disorders associated to a deficiency of boron, such as grape millerandage, apple suberose, beets empty heart, sunflower capitulum deformation, tobacco stunt growth and lower fruit set.

TREATS AND PREVENTS BORON DEFICIENCY ALLOWED IN ORGANIC AGRICROP

COMPOSITION		
Boron (B)	water-soluble	11%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%) 9,3		
Conducibility E.C. µS/cm (1‰)		
Density (g/cm³) 1,38		
WAY OF USE	₽	
	FOLIAR	

PACKAGING: 1 - 6 - 12 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes	Against grapes millerandage, flowers fading and to increase sugar content. 3 applications: 2 at pre-flowering, 1 or more at post- flowering	1-2 Kg
Stone fruits (peach, nectarine, apricot, cherry, plum), Pome fruits (apple, pear, quince), Olive and Citrus (orange, lemon, tangerine, clementine, bergamot)	At pre- and post-flowering or at the appearance of the first deficiency symptoms: 2-3 applications every 8-10 days	1-2 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	At early vegetative phases, at pre- and post-flowering or at the appearance of the first deficiency symptoms: 2-3 applications every 8-10 days	1-2 Kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	At pre-flowering or at the appearance of the first deficiency symptoms: 2 applications every 8-10 days	1-2 Kg
Beets	Against "hollow heart", starting from 4 true leaves or at the appearance of the first deficiency symptoms: 2-3 applications every 8-10 days	1-2 Kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, sugarcane)	At pre- and post-flowering or at the appearance of the first deficiency symptoms: 2-3 applications every 8-10 days	1-2 Kg
Flowers and Ornamentals	At early vegetative phases, at pre- and post-flowering or at the appearance of the first deficiency symptoms: 2-3 applications every 8-10 days	1-2 Kg







BORAMIN Mo is a liquid formulation whose specific characteristics make it particularly suitable to prevent and remedy the effects that Boron and Molybdenum deficiency might have on the crop's quality and productivity.

Since both elements are bound to a particular organic complex that improves their absorption and translocation, Boron and Molybdenum work together to improve vegetative growth, stimulate flowering, increase pollen's fertility and fruit set, promote sugar production and subsequent migration even under critical environmental conditions (thermal excursions, water stress, parasitic attacks, etc.).

TREATS AND PREVENTS BORON DEFICIENCY AND MOLYBDENUM

ALLOWED IN ORGANIC AGRICULTURE

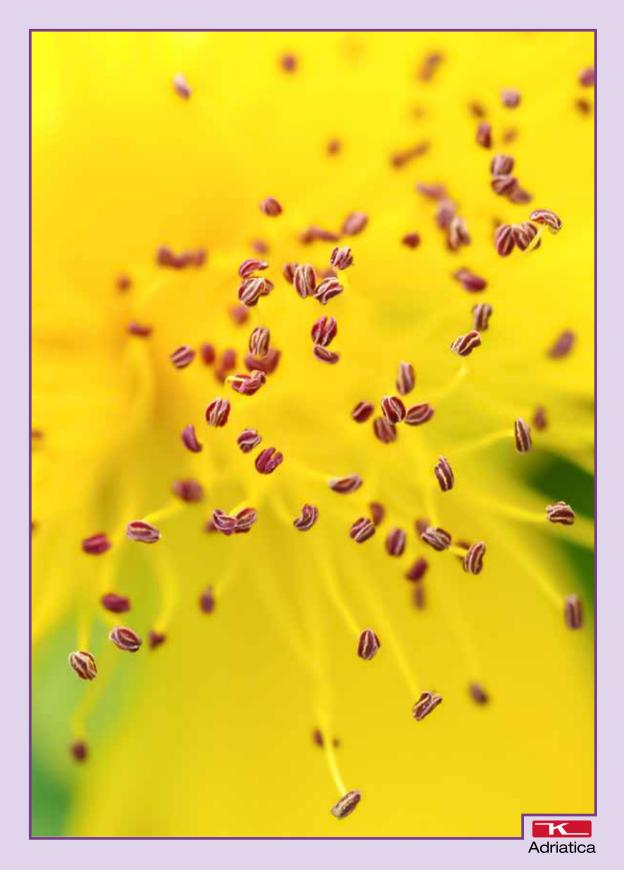
COMPOSITION		
Boron (B)	water-soluble	5%
Molybdenum (Mo)	water-soluble	0,3%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	9,0	
Conducibility E.C. µS/cm (1‰)		
Density (g/cm³) 1,27		
WAY OF USE	Ø	
- Table 61 522	FOLIAR	

PACKAGING: 1 - 6 - 12 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit, Pome fruits (apple, pear, quince). Stone fruits (peach, nectarine, apricot, cherry, plum), Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	At vegetative restart or at the appearance of the first deficiency symptoms	2-3 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	At early vegetative phases or at the appearance of the first deficiency symptoms	2-3 Kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	At early vegetative phases or at the appearance of the first deficiency symptoms	2-3 Kg
Beets	At early vegetative phases or at the appearance of the first deficiency symptoms	2-3 Kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases or at the appearance of the first deficiency symptoms	2-3 Kg
Flowers and Ornamentals	At early vegetative phases or at the appearance of the first deficiency symptoms	2-3 Kg













Its role in the plant:

Copper, being an element that can change its electrical charge, is used as a source of cellular redox potentials.

Deficiency causes:

A high soil pH, Nitrogen deficiency, compact soils and excessive availability of organic matter are the main environmental causes of Copper deficiency.

Deficiency symptoms:Stunting or no growth, chlorosis with whitened foliar tips and loss of turgor in leaves and young stalks are the main symptoms associated to Copper deficiency.

K-Adriatica's recommends: **AGRORAM 16 COMPLEX**

AGRORAM 16 COMPLEX



The copper present in **AGRORAM 16 COMPLEX** is bound to a particular organic complex that enhances its activity, favoring its absorption.

Moreover the presence of other oligoelements increases its efficacy and makes it particularly useful in solving very common deficiency conditions during the first vegetative phases.

CURES AND PREVENTS COPPER DEFICIENCY ALLOWED IN ORGANIC AGRICULTURE

COMPOSITION		
Copper (Cu)	water-soluble	16%
Manganese (Mn)	water-soluble	2%
Molybdenum (Mo)	water-soluble	0,02%
Zinc (Zn)	water-soluble	1%

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%) 4,0		
Conducibility E.C. µS/cm (1‰)		
WAY OF USE	₽	
	FOLIAR	

PACKAGING: 5 - 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit, Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	At early vegetative phases, at pre-flowering or at the appearance of the first deficiency symptoms	1-2 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	At early vegetative phases, at pre-flowering or at the appearance of the first deficiency symptoms. To be repeated 2-3 times every 8-10 days.	1-2 Kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	At early vegetative phases, at pre-flowering or at the appearance of the first deficiency symptoms	1-2 Kg
Beets, Tobacco	At early vegetative phases, at pre-flowering or at the appearance of the first deficiency symptoms. To be repeated 2-3 times every 8-10 days.	1-2 Kg
Industrial crops (tomato, soybeans, sunflower, cotton, sugarcane)	At early vegetative phases, at pre-flowering or at the appearance of the first deficiency symptoms	1-2 Kg
Flowers and Ornamentals (geranium and chrysanthemum in particular)	At early vegetative phases, at pre-flowering or at the appearance of the first deficiency symptoms. To be repeated 2-3 times every 8-10 days.	1-2 Kg













Iron is a fundamental structural component of some enzymes (haemoproteins) and of Iron-Sulfur proteins.

It acts as an enzymatic co-factor and plays a role in the synthesis of protein, chlorophyll and anthocyanin pigments. It is involved in the chloroplasts' stabilisation structure, with a direct effect on photosynthesis activity and efficiency and on the green coloring of plants.

Deficiency causes:

A high soil pH, excessive presence of bicarbonates, low availability of organic matter, high availability of phosphorus and/or nitrates, excess of Zinc, Copper, Manganese or other heavy metals are the main environmental factors causing Iron deficiency.

A reduced growth, interveinal foliar chlorosis with a coloration from pale green to yellow or whitening in case of advanced deficiency and fruits with an intense coloring are the main symptoms of Iron deficiency.

NOTE: The administration of Iron chelates is the most effective way to prevent and treat Iron

Iron chelates are made of organic compounds containing iron, which are soluble in water and can be absorbed both by the roots and by the tissues of young branches and leaves. Iron chelates can have a more or less high efficacy, based on the chelating molecule being used and to some environmental factors. The various Iron chelates have temporary stabilities according to the light and their pH levels.

Some chelates (Fe-EDDHMA, Fe-EDDHSA and Fe-EDDHA) can be easily degraded if exposed to sunlight, while others (Fe-DTPA, Fe-EDTA and Fe-HEDTA) are less photodegradable.

At the same time some chelates (Fe-DTPA, Fe-EDTA and Fe-HEDTA) are "short lived" if they are applied to soils with too high alkaline levels (near 8), while others (Fe-EDDHMA, Fe-EDDHSA and Fe-EDHHA) are stable even at pH levels higher than 10. The fertilizers containing Fe-DTPA, Fe-EDTA and Fe-HEDTA are recommended for foliar fertilization.

ization, while those with Fe-EDDHMA, Fe-EDDHSA and Fe-EDDHA are more suitable for soil treatments.



K-Adriatica's recommends: **SEQUIFILL 6.0 T SS KOLFER CLOROFILLA K** K-FFRRO



SEQUIFILL 6.0 T SS bioagricert⊗

SEQUIFILL 6.0 T SS is a Fe-EDDHA-based product formulation with an optimal ratio between the iron bound fraction in the ortho-ortho position (4%) and in the ortho-para position (2%) for immediate and long-lasting efficacy.

In Fe-EDDHA's ortho-ortho position the Iron ion is stable, highly soluble and time lasting thanks to its 6 chemical bonds. The ortho-para fraction, thanks to its 5 chemical bonds, tends to surrender its iron ion rapidly making it available to the plant, but at the same time maintaining its stability in the soil.

SEQUIFILL 6.0 T SS can be applied in all soils, in particular those where high pH values are often coupled with excessive availability of activated limestone.

TREATS AND PREVENTS IRON DEFICIENCY ALLOWED IN ORGANIC FARMING

COMPOSITION		
Iron (Fe)	water-soluble	6%
Iron (Fe)	chelato con o/o EDDHA	4%
Iron (Fe)	chelato con o/p EDDHA	2%

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)	7,8	
Conducibility E.C. µS/cm (1‰) 570		
WAY OF USE	* • • •	
WAY OF USE	FERTIGATION	

PACKAGING: 1 - 5 - 20 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit	Preventative and maintenance applications from bud development to fruit set. To be repeated before leaf-fall.	10-20 Kg
Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum)	Preventative and maintenance applications from bud development to fruit set. To be repeated before leaf-fall.	10-20 Kg
Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	Preventative and maintenance applications from bud development to fruit set. To be repeated before leaf-fall.	10-20 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	Preventative and maintenance applications from early vegetative phases	10-20 Kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	Preventative and maintenance applications from early vegetative phases	10-20 Kg
Flowers and Ornamentals (geranium and chrysanthemum in particular)	Preventative and maintenance applications from early vegetative phases	10-20 Kg







KOLFER is a DTPA-chelated Iron-based product. It is specific for foliar applications and its particular formulation makes translocation rapid and easy; as a result, it can efficiently and promptly prevent ferric chlorosis. Moreover, the high quantity of iron accelerates the chlorophyll photosynthesis process and contributes to the improvement of quality and quantity parameters.

TREATS AND PREVENTS IRON DEFICIENCY ALLOWED IN ORGANIC FARMING

COMPOSITION		
Iron (Fe)	water-soluble	6%
Iron (Fe)	chelato con DTPA	6%

PHYSICO-CHEMICAL CHARACTERISTICS	
LIQUID	
pH (sol 1%)	7,9
Conducibility E.C. µS/cm (1‰)	556
Density (g/cm³)	1,25
WAY OF USE	Ø
	FOLIAR

PACKAGING: 1 - 6 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	1-2 Kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	1-2 Kg
Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	1-2 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	1-2 Kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	1-2 Kg
Flowers and Ornamentals (geranium and chrysanthemum in particular)	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	1-2 Kg

CLOROFILLA K





CLOROFILLA K is an organo-mineral formulationwith a high presence of Iron and Potassium. Iron is bound to a particular organic complex that can be easily absorbed and translocated in the plant, thus preventing and treating potential ferric chlorosis. When applied to any crop either through the roots or through the leaves, it stimulates a rapid and greening activity.

CLOROFILLA K stimulates the synthesis of chlorophyll, it enhances photosynthesis and respiration, it promotes the synthesis of organic compounds, it triggers redox reactions and it acts synergistically with Molybdenum in reducing the amounts of nitrates.

Thanks to its content in specific amino acids, **CLOROFILLA K** organic matrix stimulates the plant to an important osmo-protective activity as a reaction to abiotic stress (due to excessive salinity, water shortage, high temperature) and keeps the cells' metabolic functions active. When applied through the roots, **CLOROFILLA K** positively affects the activity and the development of the rhizosphere microorganisms, further improving iron absorption. The acidic pH and the low conductivity are such that both toxicity and incompatibility can be excluded.

TREATS AND PREVENTS IRON DEFICIENCY IMPROVES RESISTANCE TO STRESS

INCREASES THE EFFICIENCY OF PHOTOSYNTHESIS

PROMOTES THE ACTIVITY AND DEVELOPMENT OF EDAPHIC MICROFLORA ALLOWED IN ORGANIC FARMING

COMPOSITION		
Total nitrogen (N)		3%
Organic Nitrogen (N)		3%
Potassium oxide (K₂O)	water-soluble	7%
Iron (Fe)	water-soluble	6%
Organic Carbon (C) biological origin		8,5%

PHYSICO-CHEMICAL CHARACTERISTICS			
LIQUID			
pH (sol 1%) 1,5			
Conducibility E.C. µS/cm (1‰)		850	
Density (g/cm³)		1,29	
WAY OF USE	₹	745	
Will of osc	FOLIAR	FERTIGATION	

PACKAGING: 1 - 5 - 20 Kg

CROP	APPLICATION TIME		DOSE/HECTARE*	
enor	AT LICATION THE	FOLIAR	FERTIGATION	
Grapes, Kiwifruit	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	2-4 Kg	20-40 Kg	
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	2-4 Kg	20-40 Kg	
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	2-4 Kg	20-40 Kg	
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	2-4 Kg	20-40 Kg	
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	2-4 Kg	20-40 Kg	
Flowers and Ornamentals (geranium and chrysanthemum in particular)	From early vegetative phases, preventative applications preferably at pre- and post-flowering, or curative applications at the appearance of iron-deficiency chlorosis. 2-3 applications every 8-10 days	2-4 Kg	20-40 Kg	







K-FERRO is a product that combines acidifying and greening properties.

Thanks to its high Iron content, it has a preventative and curative activity against chlorosis. Its use favors a rapid coloring of the leaves, whose intensity confers lushness and better looks. The Magnesium therein present together with iron, contributes to the intense coloring of the vegetative tissues. Sulfur, with its acidifying action, improves the availability of nutritive elements in the soil.

TREATS AND PREVENTS IRON DEFICIENCY ALLOWED IN ORGANIC FARMING

COMPOSITION		
Magnesium oxide (MgO) Total		5%
Magnesium oxide (MgO)	water-soluble	3%
Sulfuric anhydride (SO₃)	water-soluble	34%
Iron (Fe)	water-soluble	12%
Manganese (Mn)	water-soluble	0,6%

PHYSICO-CHEMICAL CHARACTERISTICS			
GRANULAR			
pH (sol 1%)			3,2
Conducibility E.C. µS/cm (1‰)			418
Granulometry			1,5 mm
Specific weight			1,19
L INV OF LIFE	202011		
WAY OF USE	PRE- TRANSPLANTING/ SOWING FERTILIZATION	POST- TRANSPLANTING/ SOWING FERTILIZATION	LOCALIZED FERTILIZATION

PACKAGING: 25 - 600 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes , Kiwifruit	Autumn and spring fertilization	150-300 Kg
Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum)	Autumn and spring fertilization	150-300 Kg
Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	Autumn and spring fertilization	150-300 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	Pre-transplanting, pre-sowing	150-300 Kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	Pre-transplanting, pre-sowing	150-300 Kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	Pre-transplanting, pre-sowing	150-300 Kg
Flowers and Ornamentals	Pre-transplanting, pre-sowing	150-300 Kg





MICROELEMENT BLENDS

AGROVIT LS

AGROVIT LS is a stable complex of microelements, which are formulated in the form of chelating salts. Its applications prevent and treat the most common microdeficiency-related physiological disorders and, at a vegetative level, stimulate plant metabolic activities.

This turns into a qualitative and quantitative yield improvement and into a higher plant resistance to abiotic stress.

CURES AND PREVENTS MICROCREASES ALLOWED IN ORGANIC AGRICROP

COMPOSITION		
Boron (B)	Soluble in water	0,6%
Copper (Cu)	Soluble in water	0,2%
Copper (Cu)	Chelated with EDTA	0,2%
Iron (Fe)	Soluble in water	0,5%
Iron (Fe)	chelato con o/o EDDHA	0,17%
Iron (Fe)	chelato con o/p EDDHA	0,33%
Manganese (Mn)	Soluble in water	2,1%
Manganese (Mn)	Chelated with EDTA	2,1%
Molybdenum (Mo)	Soluble in water	0,2%
Zinc (Zn)	Soluble in water	1,5%
Zinc (Zn)	Chelated with EDTA	1,5%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	8,5	
Conducibility E.C. µS/cm (1‰)		
Density (g/cm³) 1,26		
WAY OF USE	Ø	
FOLIAR		

PACKAGING: 1-6-12 Kg

CROP	APPLICATION TIME	DOSE/ HECTARE*
Grapes, Kiwifruit, Citrus (orange, lemon, tangerine, clementine, bergamot), Olive, Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum)	At early vegetative phases or at the appearance of the first deficiency symptoms: 3 applications every 10-12 days	1-2 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	At early vegetative phases or at the appearance of the first deficiency symptoms: 3 applications every 10-12 days	2-3 Kg
Flowers and Ornamentalse	At early vegetative phases or at the appearance of the first deficiency symptoms: 3 applications every 10-12 days	2-3 Kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases or at the appearance of the first deficiency symptoms: 3 applications every 10-12 days	2-3 Kg



MICROELEMENT BLENDS



GREEN MIX Z is a 100% water soluble microlements mix, specifically formulated for those crops with high demands for Zinc. It fosters a proper growth and lushness and helps to ensure optimal yield in crop production.

GREEN MIX Z is suitable for foliar applications on fruit trees and horticultural crops. It can be used in transplanting substrate fertilization and fertigation.

CURES AND PREVENTS MICROCREASES ALLOWED IN ORGANIC FARMING

COMPOSITION		
Iron (Fe)	Soluble in water	8%
Iron (Fe)	Chelated with EDTA	8%
Manganese (Mn)	Soluble in water	3,5%
Manganese (Mn)	Chelated with EDTA	3,5%
Molybdenum (Mo)	Soluble in water	0,2%
Zinc (Zn)	Soluble in water	1,5%
Zinc (Zn)	Chelated with EDTA	1,5%

PHYSICO-CHEMICAL CHARACTERISTICS	
SOLUBLE POWDER	
pH (sol 1%) 5,8	
Conducibility E.C. µS/cm (1‰) 380	
WAY OF USE	
FOLIA	

PACKAGING: 1 - 5 Kg

CROP	APPLICATION TIME	DOSE/ HECTARE*
Citrus (orange, lemon, tangerine, clementine, bergamot), Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum), Grapes, Kiwifruit, Olive	At early vegetative phases or at the appearance of the first deficiency symptoms: 3 applications every 10-12 days	1-2 Kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	At early vegetative phases or at the appearance of the first deficiency symptoms: 3 applications every 10-12 days	1-2 Kg
Flowers and Ornamentals	At early vegetative phases or at the appearance of the first deficiency symptoms: 3 applications every 10-12 days	1-2 Kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases or at the appearance of the first deficiency symptoms: 3 applications every 10-12 days	1-2 Kg



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary.

All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.











FOLIAR FERTILIZERS

Foliar fertilization entails the application of very diluted liquid solutions of nutritive elements on the plants' **epigeal organs** (leaves and/or trunks) which are later absorbed by the cuticle and the foliar stomata.

Once the solution is evenly distributed on the leaf surface, the elements therein contained enter inside the leaf either through the foliar veins (translaminar penetration) or under the cuticle layer (cytotropic penetration) and from there they rapidly reach the plant's conductive system which delivers them to the cells.

In this way the use of the nutritive elements is almost immediate, unlike traditional soil fertilization where they have to overcome other elements' antagonism, unsuitable pH and environment and various other constraints.

For a correct foliar fertilization we recommend:

- Applications should be done early in the morning or late in the evening to better exploit the high humidity and leaf turgor
- Applications should be done with almost complete absence of wind, especially when atomizers are used
- Make sure the crop is not stressed by drought conditions (it is recommended to irrigate the day before the application)
- A solution with sub-acidic pH promotes foliar absorption being optimal for foliar applications
- The use of an adequate moisturizer or surfactant agent reduces the superficial tension of the nebulized drops, it improves the foliar fertilizer distribution and absorption, it increases the wet surface and it lowers the risk of leaf-burnings and darkening
- Choose a water volume and application pressure suitable for each crop (use the correct nebulization volume to grant the plant's full coverage)
- Do not apply the product before a rainfall (or a drip irrigation) so that the fertilizer won't be washed away.

K-Adriatica's **FOLIAR FERTILIZERS** line includes:

FILL NPK 21-21-21 FILL NPK 31-11-11 FILL NPK 25-20-15 POLIFILL NPK 5-20-5 MAGNISOL N20 Mo Zn

HOW TO POUR THE PRODUCTS IN A TANK: THE CORRECT SEQUENCE

Pouring the products in a tank in the correct order is a fundamental step.

To obtain the best results from treatments the solution must be carefully prepared.

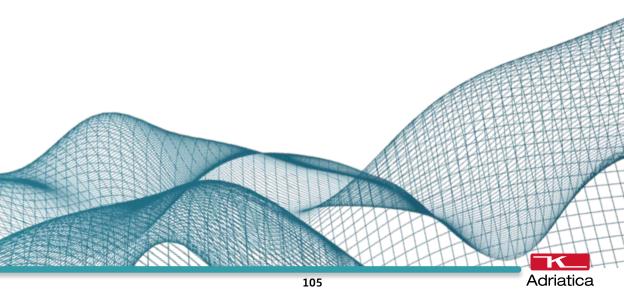
If the products do not mix properly, they may precipitate with unwanted consequences on production.

Products must be poured in a tank in the following order:

- 1. pH regulators
- 2. Water-soluble bags (WSB)
- 3. Microgranular products (WG-SG)
- 4. Wettable powders (WP)
- **5.** Suspensions concentrates and oil dispersions (SC-OD)
- **6.** Suspoemulsions (SE)
- 7. Emulsions in water / microemulsions (EW/ME)
- 8. Emulsifiable concentrates (EC)
- 9. Soluble concentrates (SL)
- 10. Wetting agents, oil, fertilizers, anti-drift adjuvants

APPLICATION DOSES:

The doses given in this catalog, unless otherwise spcified, refer to the use of Spray Volumes of 1000 L/ha (Normal Volumes).



FILL NPK 21-21-21

FILL NPK 21-21-21 is a fertilizer for foliar applications. Its balanced ratio between Nitrogen, Phosphorus and Potassium (1:1:1) makes it ideal for treating all the crops and throughout the whole productive cycle.

BALANCED NUTRITION THROUGHOUT THE CROP CYCLE

COMPOSITION		
Total nitrogen (N)		21%
Nitric nitrogen (N)		3%
Ammoniacalcal nitrogen (N)		1%
Urea nitrogen (N)		17%
Phosphoric anhydride (P2O5)	Soluble in neutral ammonium citrate and water	21%
Phosphoric anhydride (P₂O₅)	Soluble in water	21%
Potassium oxide (K₂O)	Soluble in water	21%
Iron (Fe)	Soluble in water	0,03%
Iron (Fe)	Chelated with EDTA	0,03%
Manganese (Mn)	Soluble in water	0,01%
Manganese (Mn)	Chelated with EDTA	0,01%
Zinc (Zn)	Soluble in water	0,01%
Zinc (Zn)	Chelated with EDTA	0,01%
Low chlorine content		

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)	6,7	
Conducibility E.C. µS/cm (1‰)	886	
WAY OF USE	₽	
c. 522	FOLIAR	

PACKAGING: 1 - 5 - 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit	Throughout the whole crop cycle	2-3 kg
Citrus (orange, lemon, tangerine, clementine, bergamot), Olive	Throughout the whole crop cycle	2-3 kg
Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum)	Throughout the whole crop cycle	2-3 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	From early vegetative phases to harvest	2-3 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From early vegetative phases to harvest	2-3 kg
Flowers and Ornamentals	From early vegetative phases to harvest	2-3 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	From early vegetative phases to harvest	2-3 kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	Combined with post-emergence herbicide and phyto-sanitary treatments	4-6 kg
Fodder and forage crops (alfalfa, clover, grass)	At crop harvest	3-4 kg
Shrubs and arboreal crops (both open air and nursery)	From early vegetative phases	5-6 Kg
Protected crops (Fruit crops, Horticultural crops, Flowers, Ornamentals)	From early vegetative phases	1-2 Kg



FILL NPK 31-11-11

FILL NPK 31-11-11 is a fertilizer for foliar applications whose ratio between nitrogen, phosphorus and potassium (3:1:1) makes it ideal for treatments on all herbaceous crops at the first vegetative phases and at the cycle restart in fruit-bearing plants.

SUPPORTS CROP IN THE VEGETATIVE PHASE

COMPOSITION		
Total nitrogen (N)		31%
Nitric nitrogen (N)		3%
Ammoniacal nitrogen (N)		2%
Urea nitrogen (N)		26%
Phosphoric anhydride (P₂O₅)	Soluble in neutral ammonium citrate and water	11%
Phosphoric anhydride (P₂O₅)	Soluble in water	11%
Potassium oxide (K₂O)	Soluble in water	11%
Boron (B)	Soluble in water	0,01%
Iron (Fe)	Soluble in water	0,05%
Iron (Fe)	Chelated with EDTA	0,05%
Manganese (Mn)	Soluble in water	0,04%
Manganese (Mn)	Chelated with EDTA	0,04%
Zinc (Zn)	Soluble in water	0,02%
Zinc (Zn)	Chelated with EDTA	0,02%

PHYSICO-CHEMICAL CHARACTERISTICS	
SOLUBLE POWDER	
pH (sol 1%)	7,1
Conducibility E.C. μS/cm (1‰)	
WAY OF USE	
	FOLIAR

PACKAGING: 1 - 5 - 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit	From vegetative restart to pre-flowering	3-4 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	From vegetative restart to pre-flowering	3-4 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From vegetative restart to pre-flowering	3-4 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	From early vegetative phases to flowering	2-3 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	From early vegetative phases to flowering	2-3 kg
Flowers and Ornamentals	From early vegetative phases to bud formation	2-3 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases	3-4 kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	Combined with post-emergence herbicide and phytosanitary treatments	5-6 kg
Fodder and forage crops (alfalfa, clover, grass)	At crop harvest	3-4 kg
Shrubs and arboreal crops (both open air and nursery)	At early vegetative phases	5-6 Kg
Protected crops (Fruit crops, Horticultural crops, Flowers, Ornamentals)	At early vegetative phases	1-2 Kg

^{*}The choice of the dose is subordinated to various factors and can be varied when necessary.
All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



FILL NPK 25-20-15

FILL NPK 25-20-15 is a fertilizer for foliar applications. Its ratio between Nitrogen and Phosphorus makes it ideal for treatments in all the fruit crops from the early growth phases until fruits start to develop and for pre- and post-flowering treatments, both on horticultural and industrial crops.

SUPPORTS CROP IN THE VEGETATIVE PHASE

COMPOSITION			
Total nitrogen (N)		25%	
Nitric nitrogen (N)		1,6%	
Ammoniacal nitrogen (N)		1,5%	
Urea nitrogen (N)		21,9%	
Phosphoric anhydride (P₂O₅)	Soluble in neutral ammonium citrate and water	20%	
Phosphoric anhydride (P2O5)	Soluble in water	20%	
Potassium oxide (K ₂ O)	Soluble in water	15%	
Boron (B)	Soluble in water	0,02%	
Copper (Cu)	Soluble in water	0,03%	
Copper (Cu)	Chelated with EDTA	0,03%	
Iron (Fe)	Soluble in water	0,1%	
Iron (Fe)	Chelated with EDTA	0,1%	
Manganese (Mn)	Soluble in water	0,02%	
Manganese (Mn)	Chelated with EDTA	0,02%	
Molybdenum (Mo)	Soluble in water	0,01%	
Zinc (Zn)	Soluble in water	0,05%	
Zinc (Zn)	Chelated with EDTA	0,05%	
Low chlorine content			

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)	5,3	
Conducibility E.C. µS/cm (1‰)	530	
WAY OF USE	Ø	
	FOLIAR	

PACKAGING: 1 - 5 - 25 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit	At pre-flowering and post-flowering until fruit development	3-4 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	At pre-flowering and post-flowering until fruit development	3-4 kg
Pome fruits (apple, pear, quince), Stone fruits (peach, nectarine, apricot, cherry, plum)	At pre-flowering and post-flowering until fruit development	3-4 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	At early vegetative phases, pre-flowering and post-flowering	2-3 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	At early vegetative phases, pre-flowering and post-flowering	2-3 kg
Flowers and Ornamentals	At early vegetative phases	2-3 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	At early vegetative phases, pre-flowering and post-flowering	3-4 kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	Combined with post-emergence herbicide and phytosanitary treatments	5-6 kg
Fodder and forage crops (alfalfa, clover, grass)	At vegetative restart and at crop harvest	3-4 kg
Shrubs and arboreal crops (both open air and nursery)	After transplanting or from vegetative restart	5-6 Kg
Protected crops (Fruit crops, Horticultural crops, Flowers, Ornamentals)	At early vegetative phases, pre-flowering and post-flowering	1-2 Kg



*The choice of the dose is subordinated to various factors and can be varied when necessary.
All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.

FOLIAR FERTILIZERS

POLIFILL NPK 5-20-5

POLIFILL NPK 5-20-5 is a fertilizer for foliar application whose high phosphorus content makes it ideal for post-dormancy recovery treatments, to stimulate growth, to promote rhizogenesis in post-transplanting root cuttings and to improve flowering and fruit-set in pre-flowering and full flowering applications. It is ideal for all types of crops.e.

SUPPORTS CROP IN THE POST-TRANSPLANT AND PRE-BLOOM

COMPOSITION		
Total nitrogen (N)		5%
Urea nitrogen (N)		5%
Phosphoric anhydride (P2O5)	Soluble in water	20%
Potassium oxide (K₂O)	Soluble in water	5%
Boron (B)	Soluble in water	0,02%
Copper (Cu)	Soluble in water	0,01%
Copper (Cu)	Chelated with EDTA	0,01%
Iron (Fe)	Soluble in water	0,03%
Iron (Fe)	Chelated with EDTA	0,03%
Manganese (Mn)	Soluble in water	0,02%
Manganese (Mn)	Chelated with EDTA	0,02%
Molybdenum (Mo)	Soluble in water	0,001%
Zinc (Zn)	Soluble in water	0,03%
Zinc (Zn)	Chelated with EDTA	0,03%

PHYSICO-CHEMICAL CHARACTERISTICS				
LIQUID				
pH (sol 1%)	2,0			
Conducibility E.C. µS/cm (1‰)	670			
Density (g/cm³)	1,29			
WAY OF USE	Ø			
	FOLIAR			

PACKAGING: 1 - 6 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*
Grapes, Kiwifruit	From pre-flowering to fruit-set	3-4 kg
Citrus (orange, lemon, tangerine, clementine, bergamot) and Olive	From pre-flowering to fruit-set	3-4 kg
Pome fruits (apple, pear, quince) and Stone fruits (peach, nectarine, apricot, cherry, plum)	From pre-flowering to fruit-set	3-4 kg
Strawberries and Small fruits (blueberry, raspberry, blackberry, currant)	During early vegetative phases	2-3 kg
Fruiting vegetables (tomato, pepper, eggplant, melon, watermelon, cucumber, zucchini, pumpkin)	After transplanting to reduce stress and promote rhizogenesis. At pre- and post-flowering to promote flowering and fruit-set	2-3 kg
Flowers and Ornamentals	After transplanting to reduce stress and promote rhizogenesis. At pre-flowering to promote flowering	2-3 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	During early vegetative phases	3-4 kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	Combined with phitosanitary treatments	5-6 kg
Fodder and forage crops (alfalfa, clover, grass)	At crop harvest	5-6 kg
Shrubs and arboreal crops (both open air and nursery)	At transplanting and vegetative restart	4-5 Kg
Protected crops (Fruit crops, Horticultural crops, Flowers, Ornamentals)	At early vegetative phases	1-2 Kg

^{*}The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



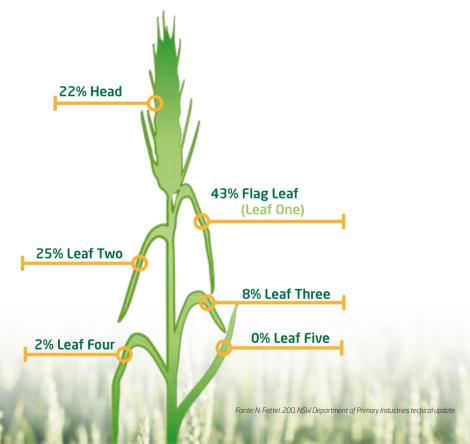


EXTEND STAYGREEN TO INCREASE YIELD

Plant productivity depends on photosynthesis namely on their capability to capture energy released by solar rays to convert oxygen, carbo dioxide, water and soil absorbed minerals into nutrients.

Photosynthetic capacity depends on leaf surface, namely on crop density, but also on how fast leaves age especially between blooming and ripening. Therefore prolonging the time in which leaves stay green may result in higher yield. On cereals, in particular, flag leaves, which are responsible for more than 40% of nutrients' accumulation during the filling stage, including protein, need to stay green for longer, to ensure higher yield and better quality.

90% of yeld-building photosynthate comes from the head and top two leaves, which don't appear until the 2nd half of the crop life.



The flag leaf is the solar panel of wheat and the primary contributor to the weight of the caryopsis, a major component of yield



FOLIAR FERTILIZERS

MAGNISOL N20 Mo Zn

MAGNISOL N20 Mo Zn is a fertilizer for foliar applications that groups together Nitrogen, Sulfur and Magnesium in balanced proportions to improve yield performance and quality of industrial and cereal crops.

The marked plastic activity, linked to the particular ratio existing between these elements, supports the plant during the phenological phases in which the quantitative and qualitative yield of the crop are determined. Sulfur, in synergy with Nitrogen, supports the formation of high-energy protein compounds, thus improving the quality of production. Magnesium, in synergy with Nitrogen, actively participates in the photosynthetic process and is essential to keep leaf functionality, consequently improving the productive characteristics of the crops.

Thanks to its balanced nutrients' supply, MAGNISOL N20 Mo Zn applied in the late growing phases in wine grapes (starting from veraison) is effective in increasing the Readily Assimilable Nitrogen (APA) and the acidity and aroma of musts.

IMPROVES THE YIELD AND QUALITY OF GRAIN AND INDUSTRIAL CROPS

INCREASES READILY ASSIMILABLE NITROGEN, ACIDITY AND AROMA OF CUTS

IN COMBINATION WITH WEED CONTROL AND PHYTOSANITARY TREATMENTS

COMPOSITION		
Total nitrogen (N)		20%
Urea nitrogen (N)		20%
Magnesium oxide (MgO)	Soluble in water	5%
Sulfuric anhydride (SO₃)	Soluble in water	10%
Molybdenum (Mo)	Soluble in water	0,002%
Zinc (Zn)	Soluble in water	0,1%

PHYSICO-CHEMICAL CHARACTERISTICS				
LIQUID				
pH (sol 1%)	6,7			
Conducibility E.C. µS/cm (1‰)	350			
Density (g/cm³)	1,32			
WAY OF USE	Ø			
	FOLIAR			

PACKAGING: 25 Kg

CROP	APPLICATION TIME	DOSE/ HECTARE*
Wine grapes	From veraison (change of color) 2 applications every 10-15 days	25 kg
Cereal crops (wheat, rice, corn, barley, sorghum, oats, rye, triticale)	Combined with post-emergence herbicide and phytosanitary treatments	25 kg
Industrial crops (tomato, tobacco, soybeans, sunflower, cotton, beets, sugarcane)	Combined with post-emergence herbicide and phytosanitary treatments	25 kg



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary.
All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.







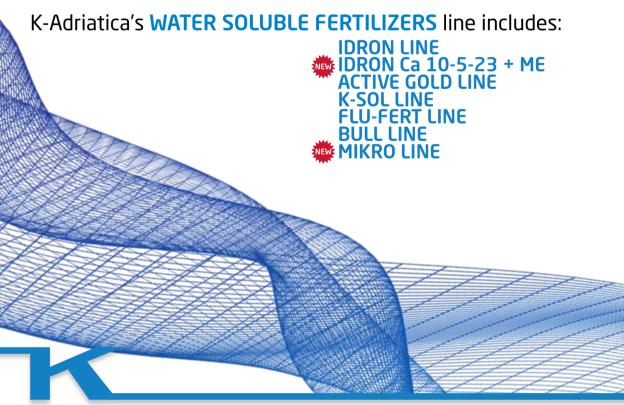




Fertigation is the technique by which fertilizers are distributed through the irrigation water. The distribution of fertilizers in water **improves the nutrients' absorption** by the plant and optimizes the use of water. This technique has the following advantages:

- low labour-intensive
- less soil compacting
- improved distribution of nitrogen fertilizers
- more efficient uptake of fertilizers, as these are applied to the soil area where the roots are actually present
- no loss of water and nutrients
- possibility to fertilize also when crops are not accessible to spraying devices

The **WATER SOLUBLE FERTILIZERS** line has a wide range of hydrosoluble, mineral and organo-mineral fertilizers specifically formulated for fertigation. This line comprises NPK formulations (Nitrogen, Phosphorus and Potassium), some enriched with microelements, which target specific nutritional requirements that are associated to the various phenological phases.



THE EFFECTS OF THE SOIL OR SUBSTRATE PH ON THE PLANTS' ABILITY TO UPTAKE NUTRITIVE ELEMENTS

Soil pH strongly affects nutrients' availability and the plants' ability to absorb them.

pH 4.5	5.0 	5.5 	6.0	6.5	7.0	7.5	8.0 	8.5	9.0
EXTREME ACIDITY	VERY STRONG ACIDITY	STRONG ACIDITY	MEDIUM ACIDITY	MILD ACIDITY	VERY MILD ACIDITY	MILD ALKALINITY	STRONG ALKALINITY	VERY STRONG ALKALINITY	EXTREME ALKALINITY
				NITRO	GEN				
			Р	HOSPH	IORUS				
				POTAS:	SIUM				
				SULF	UR				
				CALCI	UM				
					MAGNE	SIUM			
				IRO	N				
			MAN	GANES	E				
				BOR	ON				
			COPPE	R and Z	INC				
					M	OLYBD	ENUM		

IDRON LINE

The IDRON line has been known in fertigation for a long time. Its range of products are aimed at the fertilization of plantnurseries and those having particular nutritional requirements.

K-Adriatica's ongoing research of solutions for the improvement of its own formulations produced a peculiar blend of elements. branded MIX K. which, added during the formulation process delivers fertigation products with improved characteristics and efficacy.

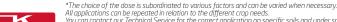
The addition of MIX K improves solubility, reduces pH and conductivity. All this turns into efficient fertigation in the field. with no sedimentation and consequent dripline clogging.

The products of the **IDRON LINE** are B.T.C. fertilizers with low chlorine content (<3%) (EU Regulation 2019/1009).

PRODUCT	PERCENTAGE COMPOSITION												
	N Tot	Nitric	Ammo- niacal	Ureic	P ₂ O ₅	K ₂ 0	Mg0	В	Cu EDTA	Fe EDTA	Mn EDTA	Mo	Zn EDTA
IDRON (NPK) B.T.C. 9-50-9 +ME	9	1	8		50	9	2	0,01	0,002	0,02	0,01	0,001	0,002
IDRON (NPK) B.T.C. 14-7-21 +ME	14	6	8		7	21	2,5	0,01	0,002	0,02	0,01	0,001	0,002
IDRON (NPK) B.T.C. 30-10-10 +ME	30	1		29	10	10	2,5	0,01	0,002	0,02	0,01	0,001	0,002

PRODUCT	pН	CONDUCTIVITY	WAY OF USE	CROP	APPLICATION TIME
	(sol. 1%)	μS/cm (1‰)	FERTIGATION DOSE kg/ha*		
IDRON (NPK) B.T.C. 9-50-9 +ME	4,0	790	25-50		Post-transplanting / pre-flowering phase
IDRON (NPK) B.T.C. 14-7-21 +ME	3,6	1290	25-50	All crops	Balanced
IDRON (NPK) B.T.C. 30-10-10 +ME	3,5	375	25-50		Vegetative phase

PACKAGING: 10 - 25 Kg



Adriatica

IDRON Ca 10-5-23+ME



IDRON Ca (NPK) B.T.C. 10-5-23 + ME is an hydro-soluble fertilizer containing a complete range of macro, meso and microelements.

Such a peculiar combination makes it a complete fertilizer capable to sustain the plant through the whole cropping cycle by providing for all nutritional needs.. It is recommended on all horticultural and ornamentals in particular on those that require high volumes of Calcium.

Regular applications of **IDRON Ca** help prevent and cure all main Ca++ deficiency physiopathies like apical necrosis on tomato and other horticultural crops, leaf margin necrosis on lettuce and other green leaf vegetables, celery, carrot and other species browning.

Moreover, the combined activity of Calcium and Potassium stimulates the production of more resistant tissues with an effect on stress tolerance, production quality and shelf life. IDRON Ca is recommended for applications between flowerings and harvest IDRON Ca (NPK) B.T.C. 10-5-23 + ME when solubilized forms an acidic solution which favours nutrients availability and prevents precipitation of insoluble parts into the fertigation nozzles.

PREVENTS AND CURES CALCIUM DEFICIENCY PHYSIOPATIES

FAVOURS PRODUCTION OF MORE RESITANT TISSUES

IMPROVES FRUTI PRESERVATION

HIGH SOLUBILITY, ACIDIC PH AND LOW CONDUCTIBILITY

COMPOSITION		
Total Nitrogen (N)		10.00%
Nitric Nitrogen(N)		10.00%
Phosphorus Dioxide (P2O5)	Soluble in water	5.00%
Potassium Oxide (K₂O)	Soluble in water	23.00%
Magnesium Oxide (MgO)	Soluble in water	2.00%
Calcium Oxide (CaO)	Soluble in water	8.00%
Boron (B)	Soluble in water	0.01%
Copper (Cu)	chelato con EDTA	0.002%
Iron (Fe)	chelated with EDTA	0.02%
Manganese	chelated with EDTA	0.01%
Molybdenum (Mo)	Soluble in water acqua	0.001%
Zinc	chelated with EDTA	0.002%

Chelating agent: EDTA pH range that ensures good stability of the chelated fraction: pH 2 to 6.5.

CHEMICAL AND PHYSICAL CHARACTERISTICS					
SOLUBLE POWDER					
pH (sol 10%) 1%					
Conductivity E.C. µS/cm (1‰) 1020					
METHOD OF USE	747		HADDODONICE		
METHOD OF USE	FERTIGATI		HYDROPONIC		

PACKAGING: 10-25 Kg

PRODUCT	WAY OF USE	DOSE/HECTAR*
Fruit vegetables (tomato, eggplant, bell pepper, zucchini, melon, watermelon)	From fruit set to maturity	30-60 kg (1-2 g/liter)
Strawberry and small fruits	From fruit set to ripening	30-50 kg (1-1,5 g/liter)
Leafy vegetables (lettuce, escarole, chicory, broccoli)	From vegetative development and to harvest	30-60 kg (1-2 g/liter)
Flower and ornamental crops	From early vegetative stages every 7-10 days	30-50 kg (1-1,5 g/liter)
Fruit crops	From fruit set until maturity	30-60 kg (1-2 g/liter)
Nurseries	Throughout the cycle	30-60 kg (0,5-1 g/liter)

NOTE: Low Chlorine B.T.C. (<3%) (EU Regulation 2019/1009)

Do not exceed concentrations of 0.3% (3g/liter)

The number of fertigation interventions will be dictated by the type of crop, nutritional needs, baseline fertilization done, and seasonal pattern.

*The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



LINEA ACTIVE GOLD

The one-of-a-kind ACTIVE GOLD line is a combination of high quality hydrosoluble fertilizers with organic compounds of vegetal origin with strong biostimulating properties.

The regular application of the **ACTIVE GOLD line** products stimulate plant development and fruit growth, favoring their uniformity and size. It also fosters the development of edaphic microflora and microfauna, with beneficial effects on rhizogenesis and on the plant as a whole. The **ACTIVE GOLD line** is enriched with cell walls and residues of nutritional yeasts that stimulate the plants' endogenous defences which make for a faster recovery following biotic and abiotic stress.

The perfect solubility, the particular combining ratios, the significant presence of laevorotatory amino acids with low molecular weight and the integration with chelated elements make these hydrosoluble products readily absorbed and effective at any crop phase.

The products of the ACTIVE GOLD LINE are B.T.C. fertilizers with low chlorine content (<3%) (EU Regulation 2019/1009).

PRODUCT		PERCENTAGE COMPOSITION														
	N Tot	N Org	Nitric	Ammoniacal	Ureic	P ₂ O ₅	K ₂ 0	Mg0	SO₃	В	Cu EDTA	Fe EDTA	Mn EDTA	Мо	Zn EDTA	C Org
ACTIVE GOLD NPK 14-7-21 B.T.C.	14	1,3	4,5		8,2	7	21	5	9,4	0,01	0,002	0,02	0,01	0,001	0,002	7,5
ACTIVE GOLD NPK 10-5-30 B.T.C.	10	1,3	7	1,7		5	30	2	10,5	0,01	0,002	0,02	0,01	0,001	0,002	7,5
ACTIVE GOLD NPK 17-17-17 B.T.C.	17	1,3	4,5	3	8,2	17	17			0,01	0,002	0,02	0,01	0,001	0,002	7,5
ACTIVE GOLD NPK 11-40-11 B.T.C.	11	1,3		5,1	4,6	40	11			0,01	0,002	0,02	0,01	0,001	0,002	7,5
ACTIVE GOLD NK 6-12 B.T.C.	6	6					12		7,9	0,01	0,002	0,02	0,01	0,001	0,002	33



PRODUCT	рН	CONDUCTIVITY	WAY OF USE	CROP	APPLICATION TIME	
	(sol. 1%)	μS/cm (1‰)	FERTIGATION			
		(1700)	DOSE kg/ha*			
ACTIVE GOLD NPK 14-7-21 B.T.C.	4,0	790	25-50		Balanced	
ACTIVE GOLD NPK 10-5-30 B.T.C.	3,3	1155	25-50	10	Ripening inducer	
ACTIVE GOLD NPK 17-17-17 B.T.C.	3,6	1290	25-50	All crops	Balanced	
ACTIVE GOLD NPK 11-40-11 B.T.C.	3,7	740	25-50	4	Post-transplanting / pre-flowering phase	
ACTIVE GOLD NK 6-12 B.T.C.	3,5	375	25-50		Post-transplantin / pre-flowering phase	



PACKAGING: 10 Kg



HYDROSOLUBLES

K-SOL LINE

The **K-SOL line** is made of a wide range of highly water soluble products from which one can choose the most suitable combination of elements that best corresponds to the requirements of the single crops and to the harvest expectations. The microelements are in a totally chelated form and help prevent and cure possible physiological disorders associated to microelements' deficiency. The **K-SOL line** can be used with any fertigation system.

B.T.C. formulations with low chlorine content are also available (<3%) (UE Regulation 2019/1009).

c. formulations with low chlorine content are also available (< 5%) (DE Regulation 2019/1009).															
PRODUCT				P	ercent <i>i</i>	AGE COM	1POSITIC	N							
	N Tot	Nitric	Ammo- niacal	Ureic	P2O5	K₂0	Ca0	Mg0	SO₃	В	Cu EDTA	Fe EDTA	Mn EDTA	Mo	Zn EDTA
K-SOL 9-50-9 +ME	9		9		50	9				0,01	0,002	0,02	0,01	0,001	0,002
K-SOL 12-6-36 +ME	12		1,1	10,9	6	36		2	3	0,01	0,002	0,02	0,01	0,001	0,002
K-SOL 14-7-21 +ME	14		10	4	7	21			25	0,01	0,002	0,02	0,01	0,001	0,002
K-SOL 20-20-20 +ME	20		3	17	20	20				0,01	0,002	0,02	0,01	0,001	0,002
K-SOL 25-10-5 +ME	25		11	14	10	5			24	0,01	0,002	0,02	0,01	0,001	0,002
SPECIFIC PRODUCTS															
K-SOL ZEA 25-5-10 +ME	25		8	17	10				21	0,05				0,003	0,7*
K-SOL (NP) 10-50 5% MgO	10		10		50			5							
HUREM (N) 2% MgO +ME	41		1	40				2		0,05			0,1*		0,1*
					BAS	IC PRO	DUCTS	*							
K-SOL (NK) 13-46 B.T.C.	13	13				46									
K-SOL (MKP) 52-34					52	34									
K-SOL NP (MAP) 12-61	12		12		61										
K-SOL SA20 BIANCO	20,6		20,6						58						
K-SOL NITROCAL GG GR	15,2	14	1,2				26,6								
K-SOL BIO 51 B.T.C.						51			43						
K-SOL MAGNESIO SOLFATO EPTAIDRATO								16	32						
K-SOL MAG NITRATO DI MAGNESIO	10,8	10,8						15,4							

PRODUCT	pН	CONDUCTIVITY	WAY OF USE	CROP	APPLICATION TIME
	(sol.1%)	μS/cm (1‰)	748		
	(301.170)	μ3/cm (±/00)	FERTIGATION		
			DOSE kg/ha*		
K-SOL 9-50-9 +ME	4,5	1235	25-50		Post-transplanting/ pre-flowering phase
K-SOL 12-6-36 +ME	4,6	1565	25-50		Ripening inducer
K-SOL 14-7-21 +ME	5,6	1720	25-50		Balanced
K-SOL 20-20-20 +ME	5,3	870	25-50		Balanced
K-SOL 25-10-5 +ME	4,5	1450	25-50		Vegetative phase
K-SOL ZEA 25-5-10 +ME	4,9	1200	25-50		Vegetative phase
K-SOL (NP) 10-50 5% MgO	6,2	1240	25-50	All crops	Post-transplanting/ pre-flowering phase
HUREM (N) 2% MgO +ME	8,3	575	25-50	5	Vegetative phase
K-SOL (NK) 13-46 B.T.C.	4,5	1425	25-50	₹	Ripening inducer
K-SOL (MKP) 52-34	5,5	830	25-50		Vegetative phase
K-SOL NP (MAP) 12-61	4,8	905	25-50		Post-transplanting/ pre-flowering phase
K-SOL SA20 BIANCO	6,5	2140	25-50		Vegetative phase
K-SOL NITROCAL GG GR	6,3	950	25-50		Vegetative phase
K-SOL BIO 51 B.T.C.	2,9	1565	25-50		Ripening inducer
K-SOL MAGNESIO SOLFATO EPTAIDRATO	7,0	747	25-50		Vegetative phase
K-SOL MAG NITRATO DI MAGNESIO	6,7	900	25-50		Vegetative phase

^{*} Not EDTA ** On LDPE Bags **PACKAGING:** 10 - 25 Kg



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary.
All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.





FLU-FERT LINE

FLU-FERT LINE is a line of gel-formulated fertilizers containing the three main elements of plant nutrition, nitrogen, phosphorus and potassium (NPK), enriched with chelated microelements.

Its peculiar formulation grants a longer persistence of the product in the soil and a gradual release of nutritive elements to the plants' roots. The products belonging to this line are less likely of being washed away, especially on sandy and highly permeable soils and help to improve the interactions between roots, soil and nutritive compounds.

The raw materials used in the formulation have a high purity, which makes the nutrients therein contained rapidly absorbed and metabolized with almost immediate desired agronomic results, even in case of adverse pedoclimatic conditions (saline soils, high or low temperatures, etc.).

PRODUCT	PERCENTAGE COMPOSITION											
	N Tot	Ureico	P2O5	K₂0	В	Cu EDTA	Fe EDTA	Fe DTPA	Mn EDTA	Мо	Zn EDTA	
GEL												
FLU-FERT NPK 20-5-10 +ME	20	20	5	10				0,06				
FLU-FERT NPK 15-10-15 +ME	15	15	10	15	0,05	0,03			0,03		0,03	
FLU-FERT NPK 10-15-20 +ME	10	10	15	20	0,05		0,03		0,03		0,03	
		(ONCENT	RATED SUS	PENSIO	NS						
FLU-FERT NPK 0-20-30 +ME			20	30	0,05		0,03		0,03		0,03	
FLU-FERT NPK 16-16-16 +ME	16	16	16	16	0,05	0,03	0,02		0,02		0,02	

PRODUCT	рН	CONDUCTIVITY	DENSITY	WAY OF USE	CROP	APPLICATION TIME	
	(sol. 1%)	μS/cm (1‰)	g/cm³	FERTIGATION DOSE kg/ha*			
		GEL					
FLU-FERT NPK 20-5-10 +ME	9,6	540	1,41	25-50		Vegetative phase	
FLU-FERT NPK 15-10-15 +ME	9,6	725	1,4	25-50		Balanced	
FLU-FERT NPK 10-15-20 +ME	9,6	765	1,5	25-50	All crops	Ripening inducer	
	CONCENT	RATED SUSPENSIONS			All		
FLU-FERT NPK 0-20-30 +ME	9,6	950	1,7	25-50		Ripening inducer	
FLU-FERT NPK 16-16-16 +ME	7,8	410	1,62	25-50		Balanced	

PACKAGING: 15 - 25 Kg



*The choice of the dose is subordinated to various factors and can be varied when necessary. All applications can be repeated in relation to the different crop needs. You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



The **BULL line** is a range of liquid fertilizers made of products with particular formulations that have been studied to perform in soils with different pH levels.

The **BULL line** includes both simple liquid fertilizers, in which there is only one macroelement to better measure their contribution to the crop requirement, and complex liquid fertilizers, which are characterized by an excellent stability and by a very easy way to use.

PRODUCT	PERCENTAGE COMPOSITION											
	N Tot	Nitric	Ammoniacal	Ureic	P2O5	K₂0	SO₃	В	Fe EDTA	Mn EDTA		
BULL N 30-0-0	30	7,5	7,5	15								
BULL P 0-54-0					54							
BULL NK 3-0-12	3	1	2			12	5,5					
BULL K 3-0-30	3			3		30						
BULL N-G000 28 DCD	28	6,5	7,4	14,1			5					
BULL NPK 14-7-7	14			14	7	7		0,1	0,3			

PRODUCT	pН	CONDUCTIVITY	DENSITY	WAY OF USE	CROP	APPLICATION TIME
	(sol.1%)	μS/cm (1‰)		747		
	(301.170)	μ3/CΠ (1/00)		FERTIGATION		
				DOSE kg/ha*		
BULL N 30-0-0	6,9	855	1,32	25-30		Vegetative phase
BULL P 0-54-0	1,3	2000	1,59	25-30	S S	Post-transplanting/ pre-flowering phase
BULL NK 3-0-12	7,0	200	1,18	25-30	crops	Ripening inducer
BULL K 3-0-30	11,2	950	1,49	25-30	₹	Ripening inducer
BULL N-GOOO 28 DCD	6,5	875	1,32	25-30	4	Vegetative share
BULL NPK 14-7-7	8,2	520	1,25	25-30		Vegetative phase

PACKAGING: 25 - 250 Kg



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary.
All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.

HYDROSOLUBLES

MIKRO LINE



The **MIKRO line** is the new line of water-soluble microgranular fertilizers created by bringing together K-Adriatica's decades of experience in the field of fertilizer compaction and granulation with new technologies on the market.

The result of the activities of the R&D unit, the **MIKRO line** has improved the main chemical and physical parameters, such as shape, size, solubility and surface regularity, of water-soluble powder formulations.

By overcoming problems related to differences in the physical characteristics of the main raw materials, the new technology makes it possible to obtain a microgranule with a uniform composition, homogeneous in grain size, highly soluble and dust-free.

PRODUCT		PERCENTAGE COMPOSITION												
	N Tot	Nitric	Ammoniacal	Ureic	P ₂ O ₅	K ₂ O	Mg0	Ca0	В	Cu EDTA	Fe EDTA	Mn EDTA	Мо	Zn EDTA
MIKRO (NPK) B.T.C. 12-6-36 +ME	12	10	2		6	36	2		0,01	0,002	0,02	0,01	0,001	0,002
MIKRO (NPK) B.T.C. 20-20-20 +ME	20	5,5	3,5	11	20	20			0,01	0,002	0,02	0,01	0,001	0,002

PRODUCT	рН	CONDUCTIVITY	GRANULOMETRY	WAY OF USE	CROP	application time
	(sol. 1%) μS/cm (1%)		mm	FERTIGATION		
	Ì	(1700)		DOSE kg/ha*		
MIKRO (NPK) B.T.C. 12-6-36 +ME	3,3	1155	1,2 - 2,2	25-50	crops	Maturant
MIKRO (NPK) B.T.C. 20-20-20 +ME	3,7	740	1,2 - 2,2	25-50	Allo	Balanced

PACKAGING: 10 - 25 Kg





MICROGRANULES









MICROGRANULES

The **MICROGRANULES** line is a range of products formulated in 0,8-3,00 mm water-soluble microgranules, which have been developed for automatized and localized sowing and transplanting.

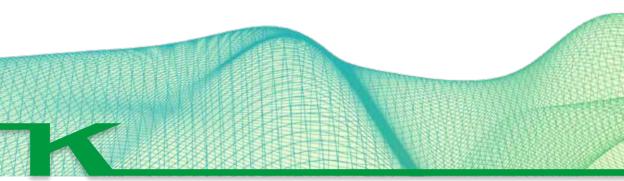
The localized fertilization brings nutrients close to the seedling during the initial development phases, reduces losses due to adverse weather conditions and lays the foundations for a more balanced crop growth, which is key for improved output and quality.

The arguments in favor of localized fertilization are:

- more available elements close to the plants
- less soil-fertilizer contact, with consequent limited soil-binding of key elements (potassium and phosphorus)
- lower quantity of fertilizer available to weeds
- visible "starter effect", with faster rhizogenesis and initial vegetative development (nitrogen and phosphorus)

K-Adriatica's MICROGRANULES line includes:

GROSTART NP 8-41 MICROPHOS Mo Zn NP 10-46 MICROPHOS NPK 8-33-10 B.T.C. GROSTART CEREALI NP 10-40 K-SPRINT COMPLEX NPK 6-26-10





The correct way of fertilizer distribution is the basis of a good result.

Localized fertilization at both sowing and transplanting of horticultural and other crops seedlings is performed with specific machinery (microgranulators) that lay down the microgranules near the seeds or the roots, with prearranged doses.

In case of shrubs, ornamentals and fruit trees, plants are transplanted and the localized fertilization is given 50% of the total dose at the bottom of the hole where the plant will be laid and the remaining 50% is incorporated in the earth filling the hole and covering the roots of the transplanted plant.

In case of sowing (of potatoes in particular) or manual transplanting of both fruiting and leafy horticultural crops, the recommended dose of microgranules must be evenly spread at the base of the sowing/ transplanting furrow, covered with earth and only then the sowing/transplanting process can start. In case of sowing, furrows must be covered with earth. Both sowing and transplanting must be followed by adequate irrigation.

BENEFITS

- Evident starter effect, with ready rhizogenesis and rapid initial vegetation development (Nitrogen and Phosphorus)
- Increased availability and uptake of elements near the plant
- Less contact between manure and soil, resulting in reduced fixation by the soil (Potassium and Phosphorus)
- Less amount of manure removed by weeds
- Reduced environmental impact



CROGRANULES

K-Adriatica's MICROGRANULES line was created with the purpose to improve seed germination and seedling rooting, which both benefit from the availability of Phosphorus.

To optimize the granules' distribution on the crops, two granulometries have been developed:

- 0.8 to 1.2 mm granules; to be used in extensive crops seeders and in horticultural crops' transplanting machines
- 1,5 to 2,2 mm granules: to be used in the sowing of grain cereals alternating, in the hopper, layers of seeds and layers of microgranular fertilizer in a proportion 5:1 (50 kg of seeds and 10 kg of fertilizer)

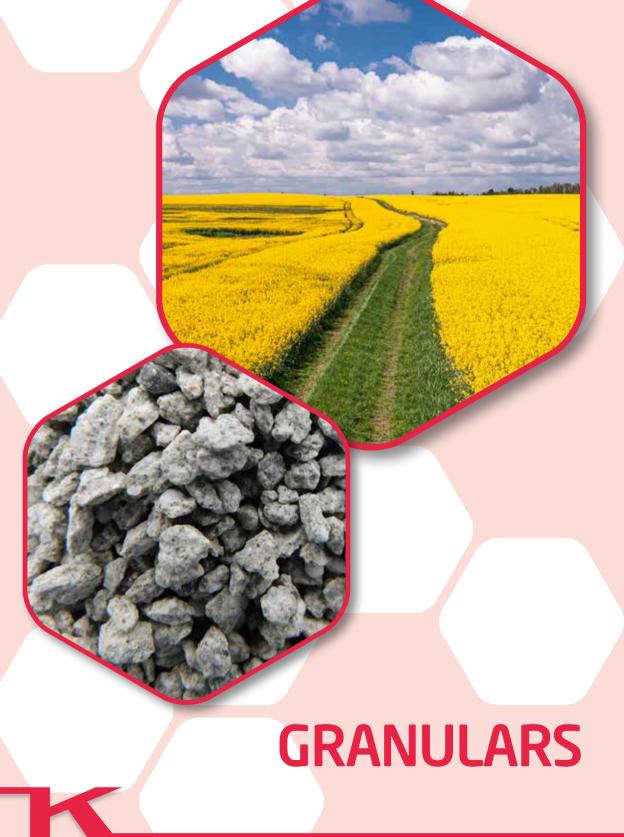
B.T.C. formulations with low chlorine content are also available (<3%) (UE Regulation 2019/1009).

PRODUCT	GRANULOMETRY	SPECIFIC WEIGHT	WAY OF USE	DOSE kg/ha*	CROP	APPLICATION TIME
GROSTART NP 8-41 0,2 B+0,04% Cu+0,5% Fe +0,5% Zn	0,8 - 1,2	0,89		25-50	Cereal crops, Horticultural crops, Industrial crops	Localized at sowing/ trans- planting
MICROPHOS Mo Zn NP 10-46 0,002% Mo + 0,8% Zn	0,8 - 1,2	0,90	, -	30-45	Cereal crops, Horticultural crops, Industrial crops, Flowers Ornamentals	Localized at sowing/ trans- planting
MICROPHOS NPK 8-33-10 B.T.C 0,002% Mo + 0,8% Zn + 2% MgO +9% SO ₃	0,8 - 1,2	0,90	fertilization g fertilization	30-45	Cereal crops, Horticul- tural crops, Industrial crops	Localized at sowing/ trans- planting
GROSTART CEREALI NP 10-40 0,08% Cu + 0,5% Fe + 0,1% Zn - with DCD inibitor 2,5%	1,5 - 2,2	0,90	Pre-trans- planting/sowing fertilization. Post-trans- planting/sowing fertilization	25-50	Cereal crops	Localized at sowing
			trans- pla	80-100	Cereal crops	Localized at sowing
K-SPRINT COMPLEX NPK 6-26-10 4% CaO + 2% MgO + 12% SO ₃ + 0,1 % B + 0.007% Mo + 0.6 Zn + Humic extracts	45.55		Pre- Post	50-80	Soybeans	Localized at sowing
Activated with fertilizer-specific product: humic	1,5 - 2,2	1,01		100-120	Beets	Localized at sowing/ trans- planting
and raise dead not recording to				80-120	Horticultural crops	Localized at sowing/ trans- planting

PACKAGING: 25 Kg (GROSTART) - 15 Kg (MICROPHOS, K-SPRINT COMPLEX)













GRANULARS

The **GRANULARS** is a line made of a wide range of products aimed at providing a solution to nutritional requirements of all crops, at all phenological phases and in all planting conditions.

K-Adriatica's compacted granular products are produced through a dry granulation process, borrowed from the pharmaceutical industry, which uses mechanical compression to obtain particles of raw material.

This process yields compacted granules without the addition of solvents necessary for the standard granulation process, which can have an impact on the product's final solubility.

The **GRANULARS** line offers a wide selection of products with the highest solubility and the highest versatility.

K-Adriaticas's **GRANULARS** line include

N-G000 LINE
N-G000 NITROSTOP PLUS
K-FERT LINE
K-FERT BIO LINE
ORTFRUTKAL NPK 9-5-18



EFFICIENCY OF NITROGEN FERTILIZATION

The objectives of the **European Green Deal**, which aims at the development of sustainable agricultural systems and which, as far as fertilizers are concerned, aims to achieve, by 2030, a reduction in their use of at least 20 percent, make it imperative to maximize the efficiency of fertilization.

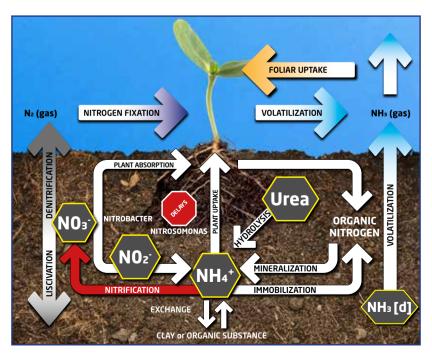
In particular, the management of **nitrogen fertilization** requires special attention since nitrogen constitutes a highly critical element toward the environment, as it is subject to potential losses that can occur either by leaching into the water table or by volatilization to the atmosphere.

Therefore, it becomes essential to use technologies to minimize its losses, making as much of it available to plants as possible to achieve high yields and thus **maximize** its **efficiency**.

To this end, the fertilizer industry has made several technologies available in recent years by developing "non-readily available fertilizers" or "fertilizers with urease or nitrification inhibitors."

"Non-early-acting" fertilizers (slow-release and controlled-release fertilizers, phase-release, coated and condensed fertilizers), regardless of the production process, are characterized by a release of nutrients, **modulated** over time and according to the soil and climatic conditions and the current crop. The system is viable, but production costs are high and make the product more expensive than inhibited products. In addition, an unresolved problem is the residue of the cover materials that remain in the soil and are little and difficult to degrade.

Fertilizers with urease or nitrification **inhibitors**, on the other hand, are obtained by mixing mineral fertilizers with substances (3,4 DMPP, DCD, NBPT, etc.) that can inhibit the activity of the microorganisms that mediate the transformations from the urea form to ammonia (urease inhibitors) or from ammonia to nitrate (nitrification inhibitors), thus ensuring a slowing down of the release of 'nitrogen and a greater **synchronization** of the release with the needs of the plant. Since it can be counterproductive to inhibit bacterial activity that is a direct expression of soil fertility, these fertilizers must be formulated with specific-acting inhibitors and with a persistence that is guaranteed for a period of time that follows the **crop cycle** (a few weeks to a few months).





N-GOOO LINE

The products of the **N-G000** line are slow-release fertilizers, characterized by the presence of the nitrification inhibitor, based on Diciandiamide (DCD), **N-G000 NITROSTOP**, which after a long evaluation process has been certified compliant according to **ANNEX 1** of EU Regulation 2019/1009 by STICHTING EFCI Register - Rotterdam.

Thanks to **DCD**, ammoniacal Nitrogen, absorbed by the colloids of the clay fraction and therefore not leachable, is **gradually** transformed into the nitrate form over a period of time between 60 and 90 days.

Throughout this period, Nitrogen is made available to the plant gradually, reducing its losses both by leaching into the soil and by volatilization into the atmosphere. To ensure maximum nutritional and environmental results, the **N-G000** inhibitor **NITROSTOP** is distributed in the production process in a microcrystalline state in a mixture with the other raw materials (Nitrogen, Phosphorus, Potassium) and the whole is subsequently compacted.

Low Chlorine (<3%) B.T.C. formulations are available (EU Regulation 2019/1009).

BENEFITS

- Reduction in losses caused by leaching and volatilization to the atmosphere
- Reduction of up to 20% in fertilizer use, compared with conventional formulations
- Reduction in the number of applications
- · Savings in labor and spreading costs
- Reduction in environmental impact

PRODUCT	WAY OF USE	DOSE Kg/ha*	CROP
	N-G000 AZOTATI		
N-G000 PRATIKO KRISTAL 20,6% N + 58% SO ₃		300-600	
N-G000 26 26% N + 44% SO ₃		300-700	All Crop
N-G000 30 30% N + 2% MgO + 28% SO ₃	Pre-transplanting/sowing fertilization, Post-transplanting/sowing fertilization	200-600	
N-G000 32 32% N + 32% SO ₃		300-700	
N-G000 40 40% N + 2% MgO + 5% SO ₃ + 0,1% Zn		300-600	Cereal crops, Citrus, Horticultural crops
	N-GOOO NPK		
N-G000 NP 12-28		200-500	Cereal crops, Fruit crops,
N-G000 NP 20-10 32% SO ₃		300-600	Horti- cultural crops
N-G000 NPK 15-5-25 10% SO ₃	Pre-transplanting/sowing fertilization, Post-transplanting/sowing fertilization	300-500	Cereal crops, Horticultural crops
N-G000 NPK 14-6-16 B.T.C. 2% MgO + 31% SO ₃ + 2% CaO + 0,1 % B		300-900	Fruit crops, Horticultural crops, Olive
NOCCIOLETO N-G000 NPK 22-05-08 2% CaO + 2% MgO + 10% SO ₃		300-900	Fruit crops, Horticultural crops, Olive , Hazelnut

PACKAGING: 25 - 500 /600 Kg



N-GOOO NITROSTOP PLUS

Sustainable animal husbandry can also make its contribution in the global battle to curb the impact of climate change by reducing emissions. The most effective mitigation measures are improving the animal's diet and nutrition, caring for welfare, using livestock manure to produce renewable energy, and managing livestock manure for fertilizing fields.

For the latter measure, K-Adriatica offers N-G000 NITROSTOP PLUS.

N-GOOO NITROSTOP PLUS is a product with specific action for the valorization of nitrogen units in livestock manure. The action of the nitrification inhibitor (Diciandiamide-DCD) significantly slows down the process of converting the ammoniacal fraction to nitrate, significantly reducing losses by volatilization and limiting losses by leaching.

This allows maximum utilization of the nitrogen units supplied with the effluent by keeping them in the affected root zone for a longer period of time thus favoring their utilization by plants.

The formula is supplemented with a mineral fraction that provides mesoelements that help enrich the natural fertility of the soil.

COMPOSITION	
DICYANDIAMIDE 90%	

CHEMICAL AND PHYSICAL CHARACTERISTICS				
SOLUBLE POWDER				
pH (sol 10%)	7,4			
Conductivity E.C. µS/cm (1‰)				
Density (g/cm³) 0,70				
METHOD OF USE				
FERTIGATION OF USE				

PACKAGING: 5 Kg

PRODUCT	WAY OF USE	DOSE gr/mc	CROP
N-GOOO NITROSTOP PLUS	Cattle slurry: It is recommended to put in an amount of N-G000 NITROSTOP PLUS.	70-75 gr/mc	All Crop
DICYANDIAMIDE	Swine slurry: It is recommended to input an amount of N-G000 NITROSTOP equal to 50-55 gr/mc	50-55 gr/mc	жіі стор



LINE K-FERT

The **K-FERT line** includes a wide range of products characterized by the presence of the three main macro-nutrients (Nitrogen, Phosphorus, Potassium) and fair amounts of Sulfur (in the form of sulfur dioxide, SO₃), considered the fourth most important nutrient for its function in plant nutrition.

Complex binary fertilizers, which provide rational responses to specific crop and soil requirements, complete the line: recommended for fall/spring cereal, rice, beet and soybean fertilizations.

Low Chlorine Content (<3%) B.T.C. formulations are also available (EU Regulation 2019/1009).

PRODUCT	WAY OF USE	DOSE Kg/ha*	CULTIVES		
K-FERT AZOTATI					
SOLFATO AMMONICO CRISTALLINO GIALLO		300-600	Cereal Crops, Beet, Soybean		
PRATIKO	Pre-transplant/seeding fertilization,	300-600	Cereal Crops		
UNIKO	Post-transplant/seeding fertilization	300-600	Cereal Crops		
ENERGIKO		300-600	Cereal Crops		
	K-FERT B.T.C.				
ORTO-FRUTTA NPK 6-12-22 B.T.C.		400-700			
NPK 11-22-16 B.T.C.		400-700			
ORTO-FRUTTA NPK 12-12-17 B.T.C.	Pre-transplant/seeding fertilization, Post-transplant/seeding fertilization.	400-700	Cereal Crops, Beet, Soybean		
KS 30 B.T.C		400-700			
KS 50 B.T.C		400-700			
	K-FERT STD				
NP 5-25 2 MgO + 5 SO ₃		200-700	Cereal Crops, Fruit Crops		
NP 10-25		200-700	Cereal Crops		
PK 0-14-28 2 MgO		400-700	Grain crops, Beet crops, Soybeans		
PK 0-20-20		400-700			
NK 16-0-30 15 SO ₃		200-700	Cereal crops, Fruit crops		
NPK 6-12-24 8 SO ₃		300-800	Cereal crops, Beet, Soybean		
NPK 7-14-21 6 SO ₃	Pre-transplant/seeding fertilization,	300-800	Cereal crops, Soybeans		
NPK 8-16-20 11 SO ₃	Post-transplant/seeding fertilization.	300-800	Cereal crops, Beet, Soybean		
NPK 8-24-24		300-800	Cereal Crops		
OLIVETO NPK 12-8-8 2MgO - 21 SO ₃ - 0,1 B		400-800 kg	Citrus and Olive		
VIGNETO NPK 12-6-18 2 MgO - 24 SO ₃ - 0,1 B		400-900 kg	Fruit and Vine Crops		
NPK 13-5-20 25 SO ₃		300-800	Cereal Crops		
NPK 15-15-15 5 SO ₃		300-700	cereal crops		
NPK 20-10-10 16 SO ₃		300-700	Cereal Crops, Fruit Crops		

PACKAGING: 25 - 500/600 Kg



^{*}The choice of the dose is subordinated to various factors and can be varied when necessary.

All applications can be repeated in relation to the different crop needs.
You can contact our Technical Service for the correct application on specific soils and under specific climate conditions.



The K-BIO line, with products authorized in organic farming, was created to target more specific nutritional requirements of all crops. These products are made of granules that rapidly dissolve in the ground making nutrients available for immediate root uptake, warranting the highest qualitative and quantitative production standards, also in organic farming.

B.T.C. formulations with low chlorine content are also available (<3%) (UE Regulation 2019/1009).

PRODUCT	WAY OF USE	DOSE kg/ha*	CROP
K-BIO PK 6 12 14% CaO + 5% MgO + 40% SO ₃	Pro transplanting/souring	500-900	Fruit crops, Horticultural crops,
K-BIO 514 14% K ₂ O + 17% CaO + 6% MgO +48% SO₃	Pre-transplanting/sowing fertilization, Post-transplanting/sowing fertilization	400-800	Beets, Strawberries
K-BIO S28 B.T.C. 28% K ₂ O + 10% CaO +8% MgO +30% SO ₃		400-800	Fruit crops, Horticul- tural crops, Beets, Strawberries, Tobacco

PACKAGING: 25 - 500/600 Kg

ORTFRUTKAL NPK 9-5-18

ORTFRUTKAL NPK 9-5-18 is a compacted granular fertilizer that combines the presence of macro- meso- and microelements in a balanced and complete ratio. Formulated with selected raw materials, ORTFRUTKAL NPK 9-5-18 ensures maximum plant availability of all the nutrients provided.

Due to its complete nutritional profile, ORTFRUTKAL NPK 9-5-18 is suitable from the early vegetative stages for all crops and is especially recommended from the post-flowering stage until harvest, especially for fruit and flowering horticultural crops demanding in Potassium.

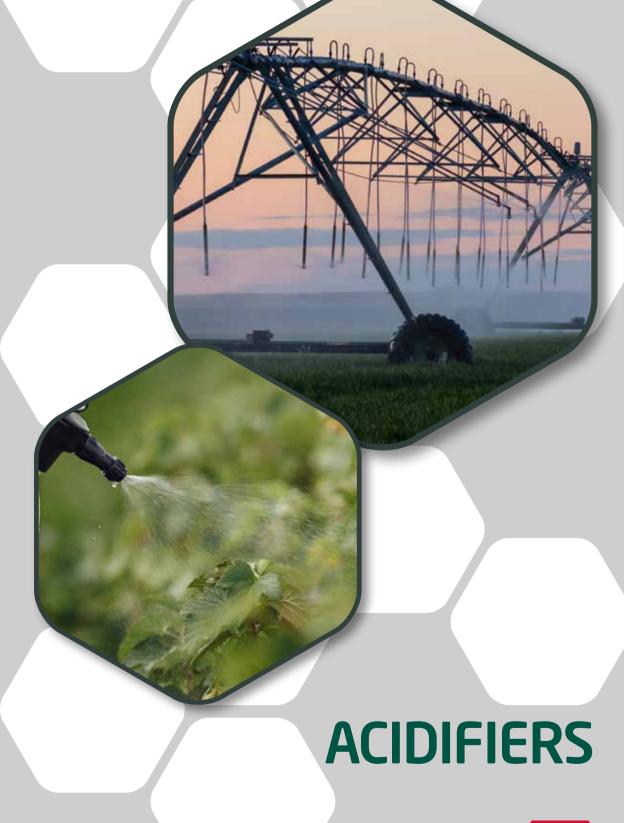
The presence, in addition to macronutrients (Nitrogen, Phosphorus and Potassium), of the main mesoelements (Calcium, Magnesium, Sulfur) and microelements (Iron, Zinc, Manganese, Boron, Molybdenum) make ORTFRUTKAL NPKK 9-5-18 the basis for balanced nutrition, which is indispensable for the formation of compact and robust plants that can ensure quality production. In addition, the compaction process that is based on a dry granulation process, which uses only mechanical compression to agglomerate the raw material particles, without the addition of solvents, enhances the final solubility of the product. In fact, the granule obtained in this way is characterized by its easy and fast disintegration, ensuring rapid assimilation of nutrients by the roots.

PRODUCT											
	N Tot.	P _z O _s Tot.	K ₂ 0	CaO	Mg0	SO₃	В	Fe	Mn	Мо	Zn
ORTFRUTKAL NPK 9-5-18	9	5	18	10	2	8	0,01	0,02	0,01	0,002	0,01

PRODUCT	TIME OF APPLICATION	DOSE/HECTARE*
	Pre-early vegetative growth	300 Kg
Fruit crops	Post fruit set	150 Kg
	Post-harvest	200 Kg
	Pre-seeding or pre-transplanting	500-600 Kg
Fruit horticultural crops (tomato, eggplant, bell pepper, zucchini, cucumber, pumpkin, melon, watermelon)	In location on the inter-row during weeding or tamping. To be repeated as needed	100-300 Kg
	Pre-sowing or pre-transplanting	500-600 Kg
Flower crops	In localization on the inter-row at weeding or tamping stage. To be repeated as needed	100-300 Kg

PACKAGING: 5-25 Kg













ACIDIFIERS

The **ACIDIFIERS** line is a range of products created by K-Adriatica to improve the **efficacy** of crop protection, weed control, phytohormones and fertilizers' applications.

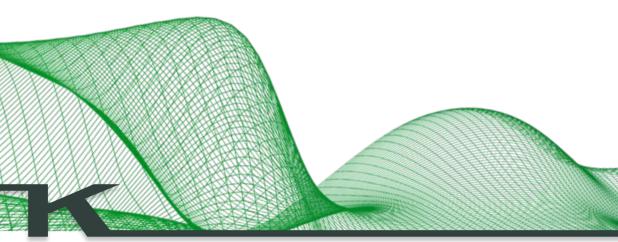
Among the factors affecting the efficacy of the treatments, water pH plays an important role. Alkaline hydrolysis, which occurs at high pH levels, might be responsible for the active ingredient's molecules deactivation, resulting in a loss of efficacy against the pathogens they should control (pests - fungi - weeds).

Water **acidification** to reach optimal pH levels (5,5) prevents alkaline hydrolysis so that the efficacy of the actives to be used in the formulation is not impaired.

From a nutritional stand point it is important to notice that, in case of fertigation and foliar applications, a correct water pH maximizes crop nutrients' uptake, resulting in **less used** fertilizers and **lower cost** per hectare.

K-Adriatica's **ACIDIFIERS** line includes:

NITRACID SYNCRON



THE ADVANTAGES OF NUTRITIVE SOLUTIONS' ACIDIFICATION

The acidification of nutritive solutions is in many ways a common and convenient practice in fertigation. The correction of the nutritive solution's pH in fertigation offers many advantages, the two main ones being:

• pH optimization for a better availability of nutritive elements

Each essential nutritive element for the plant has a pH interval, within which there is the highest availability of its assimilable forms. This interval changes for each element, even though between pH 6,2 and pH 6,5 there is the best availability for many of them.

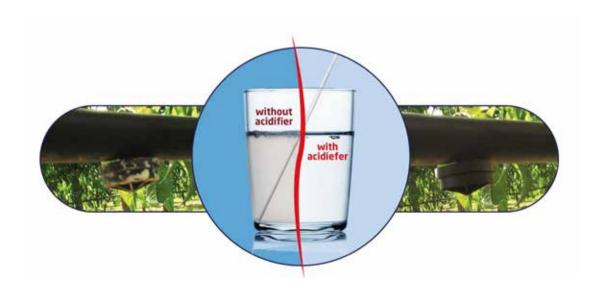
There are also optimal pH values for nutrients and root uptake of each species. There are plants that better thrive in low pH levels (acidophilic species) and others that, conversely, better develop with high pH levels (basophilic species).

Prevention and/or elimination of clogs and deposits in the irrigation system and pipes

Irrigation pipe clogging may happen because of three different causes:

- physical, due to suspended solids
- biological, due to the proliferation of bacteria and algae
- chemical, due to the formation of precipitates

By using an acidified nutritive solution one can reduce the impact of the above inconveniences





NITRACID

NITRACID is a product that has to be applied by mixing it with irrigation water. Its use is best when applied in fertigation with hydrosoluble fertilizers.

NITRACID performs an intense acidifying activity. It considerably reduces the pH values both in the irrigation water and in the soil subject to fertigation. NITRACID improves the availability of micro and macroelements with positive effects on root uptake. **NITRACID** provides readily available nitrogen and magnesium, with immediate greening effect and intense vegetative growth.

The product is used for foliar fertilizer applications, especially in combination with crop protection products (fungicides, insecticides). **NITRACID** also performs a specific cleansing action against honeydew (sugary exudates) secreted by various insects such as pear psylla, aphids and the flaky citrus fly. Moreover the peculiar composition of this formulationcreates an unwanted environment for the development of the above mentioned parasites.

The use of **NITRACID** is particularly recommended on root applications of microelements, especially of iron-based formulations. Lastly, it is recommended when devices used for the application of crop protection products and fertilizers need a strong and thorough cleansing of all their parts (barrels, tanks and containers in general).

COMPOSITION		
Total nitrogen (N)		15%
Nitric nitrogen (N)		9%
Ammoniacal nitrogen (N)		6%
Magnesium oxide (MgO)	Soluble in water	2%

PHYSICO-CHEMICAL CHARACTERISTICS			
LIQUID			
pH (sol 1%) 1,7			
Conductivity E.C. µS/cm (1‰)	1650		
Density (g/cm³)		1,32	
WAY OF USE	Ø	747	
	FOLIAR	FERTIGATION	

PACKAGING: 6 - 12 - 25 Kg

coop	ADDUCATION TIME	DOSE*		
CROP	APPLICATION TIME	FOLIAR	FERTIGATION	
All crops	Combined with foliar fertilizer applications	100-200 g/hectolitre	15-30 Kg/ha	
All crops	Combined with crop protection applications	100-200 g/hectolitre		
All crops	Combined with hydrosoluble fertilizer applications in fertigation		2,5-4 kg/1000 m2 The more frequent the applications, the lower the amount of NITRACID to be used	
All crops	Root application of microelements, especially of iron-based formulations		500-600 g/hectolitre of fertilizing solution	
All crops	Cleansing action on sugary exudates secreted by various insects (psylla, aphids, flaky citrus fly, whiteflies, etc.)	250-300 g/hectolitre Use abundant amounts of water and apply at the very first hours of the day		
	Devices cleansing	300-400 g/hectolitre		

ACIDIFYING SUPPLEMENT

SYNCRON

SYNCRON is a nutritional specialty with an acidifying activity on the solution. Thanks to its composition, the preventative addition of **SYNCRON** in the blend leads to the following agronomic results:

- no alkaline hydrolysis on herbicides, crop protection products and any substance subject to this reaction
- physiological relief to post-chemicals application stress
- · improvement of foliar uptake
- faster and more efficient nutrients' uptake (fertigation)
- The use of SYNCRON on all crops and at all phenological phases keeps solutions at acidic pH values, positively affecting the solubility of all products used in the mix with undeniable benefits to the farmer.

COMPOSITION	
Citric Acid	98 %
Disaccharides	2 %

PHYSICO-CHEMICAL CHARACTERISTICS				
SOLUBLE POWDER				
pH (sol 1%) 3,7				
Conductivity E.C. µS/cm (1‰)	Conductivity E.C. µS/cm (1%) 456			
WAY OF USE		745		
Will St OSC	FOLIAR	FERTIGATION		

PACKAGING: 0.3 Kg

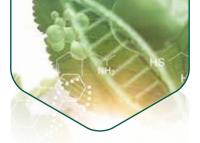
CROP	APPLICATION TIME	DOSE/HECTARE*	
		FOLIAR	FERTIGATION
All crops	Combined with foliar fertilizer applications	0,3 Kg	
All crops	Combined with crop protection applications	0,3 Kg	
All crops	Combined with hydrosoluble fertilizer applications in fertigation		1-2 Kg















COADJUVANTS

The products of the **K-Adriatica's COADJUVANTS** line are formulated to improve absorption by both ensuring a homogeneous distribution of the product on the treated surface and by facilitating penetration inside the plant, thanks to peculiar organic compounds therein contained.

K-Adriatica's **COADJUVANTS** line includes:

KOMBY TENSIOFILL TIOAMMON



KOMBY

KOMBY is a wettable powder formulation to be added to all crop protection and fertilizer foliar applications.

These products, combined with crop protection products, enhance the crop natural defences against external agents (fungi, bacteria, viruses, pests).

These products are also characterized by high acidic functions, which facilitate stomata uptake and translocation inside the plant of active ingredients and therefore providing faster treatment efficacy.

SYNERGIST ACIDIFIER IMPROVES ABSORPTION

COMPOSITION	
Polycarboxilic acids	40 %
EDTA	20 %
Total sulfuric trioxide (SO³)	12 %
Carbon (C)	27 %
Free amino acids	8%

COMPOSITION			
SOLUBLE POWDER			
pH (sol 1%)		4,1	
Conductivity E.C. µS/cm (1‰)		400	
WAY OF USE	Ø	* • • •	
	FOLIAR	FERTIGATION	

PACKAGING: 0,5 Kg

CROP	APPLICATION TIME	DOSE/HECTARE*	
		FOLIAR	FERTIGATION
All crops	Combined with foliar fertilizer applications	0,3-0,5 kg/ha	
All crops	Combined with hydrosoluble fertilizer applications in fertigation		1-2 kg/ha





TENSIOFILL

TENSIOFILL is a coadjuvant that favors the homogeneous distribution of the fertilizer on the treated leaves lamina.

TENSIOFILL high permeating capability produces an increase of the contact surface between the nutritive solution and the vegetal tissue, facilitating a more efficient penetration and consequent absorption of the fertilizing elements. At the same time some formulation-specific compounds bind the fertilizer to the leaf surface.

TENSIOFILL prevents the formation and the inevitable shedding of large drops, particularly on waxy surfaced leaves. Excellent results are obtained when **TENSIOFILL** is applied in fertigation, as it appears to favor a homogeneous distribution and penetration in the soil where roots are more present.

Lastly, it is recommended in combination with all those formulations that are applied to the plant through an injecting pole.

PERMEATING ADHESIVE

COMPOSITION	
Glycol	6,5%
10% Dimethylpolysiloxane emulsion	

PHYSICO-CHEMICAL CHARACTERISTICS			
LIQUID			
pH (sol 1%)	9,0		
Conductivity E.C. µS/cm (1‰)		24	
Density (g/cm³)		1	
WAY OF USE	Ø	747	
Will di dae	FOLIAR	FERTIGATION	

PACKAGING: 1 - 6 - 12 - 25 Kg

CROP	APPLICATION TIME	DOSE*	
		FOLIAR	FERTIGATION
All crops	Combined with foliar fertilizer applications	50-100 g/hectolitre of fertilizing solution	
All crops	Combined with hydrosoluble fertilizer applications in fertigation		In the ratio of 1% of the amount of fertilizer used



TIOAMMON

TIOAMMON is a product that can be both used as a foliar fertilizer and in fertigation during the first vegetative phases. The nitrogen content favorably affects the migration process of nutritive elements.

TIOAMMON can be also used in combination with some systemic herbicides (phosphonates and hydroxylamines). The product enhances the weeds' sensitivity to the herbicides' active ingredients, allowing up to 1/3 ca. reduction in herbicide consumption.

IN COMBINATION WITH SYSTEMIC HERBICIDES (PHOSPHONATES AND HYDROXYLAMINES)

COMPOSITION	
Total nitrogen (N)	8 %
Ammoniacal nitrogen (N)	8 %
Sulfuric anhydride (SO₃) Soluble in water	22 %

PHYSICO-CHEMICAL CHARACTERISTICS			
LIQUID			
pH (sol 1%) 5,5			
Conductivity E.C. µS/cm (1‰) 910			
Density (g/cm³) 1,2			
WAY OF USE	Ø	747	
	FOLIAR	FERTIGATION	

PACKAGING: 1 - 6 - 12 - 25 Kg

CROP APPLICATION TIME		DOSE*	
		FOLIAR	FERTIGATION
All crops	Combined with foliar fertilizer applications	250-300 g/hectolitre on all the crops in the first developmental phases	
All crops	Combined with hydrosoluble fertilizer applications in fertigation		5-8 Kg/1000m²
All crops	To enhance weed sensitivity to herbicides	Combined with phosphonate herbicides: 10-12 kg/ha Combined with hydroxylamines: 6 kg/ha, Do not exceed the maximum dose of 2 kg/hectoliter	









SEED TREATMENT

Seed treatment is the precise and targeted application of products to the seed that are aimed at both controlling the development of pathogenic organisms and favoring the emergence of seedlings. This makes the seedlings and the crops which will grow out of them more productive, with improved quality and more resistant to abiotic stress.

It has been proven that the use of treated seeds brings relevant productive increases compared to untreated seeds. According to some evaluations by Assosementi (Italian Seeds Association), seed treatment avoids losses for up to 20% of production and increase in costs of up to 200%.

The most common seed treatments are fungicidal, which act like a barrier against infections and insecticidal, which prevent insects from feeding on seeds and seedlings. Biostimulant products are more and more used in seed treatment. These are products that can make plants more resistant to biotic stress (heat, cold, drought) and more capable of uptaking nutritional solutions.



SEED TREATMENT

SEEDCURE 9 L CEREALI



SEEDCURE 9 L CEREALI is a mixture of trace elements specifically designed for seed treatment.

The individual trace elements are linked to a special organic complex capable of promoting an intense filming action on the seed surface, thus facilitating their contact and migration without causing toxicity or intolerance phenomena.

The individual organic components work in synergy, enhancing the achievable results. In fact, the presence of seaweed extract containing polysaccharides, pseudo-hormonal substances, amino acids, alginates and phenols, in addition to enhancing the "tanning" action, operates an intense defense of the seed against biotic and abiotic stresses, increasing its endogenous resistance and actively protecting the delicate germination process. The presence of humic and fulvic acids and yeast enhances the germination capacity and energy of the seed, inducing marked rhizogenetic activity at the sprout level, improving the bioavailability of Phosphorus and Iron, and promoting around the seed a decided proliferation of beneficial microorganisms.

The mineral component was also selected considering the positive interactions between the elements. In particular, Boron, in synergy with Zinc and in direct contact with the seed, stimulates germination and promotes the emission of an abundant and extensive "root capillitium." Copper, then, actively participates as a catalyst of reactions proper to the processes of cellular respiration and shoot tissue growth, and will support the growth of the new plant by enhancing chlorophyll synthesis. Molybdenum, essential for Nitrogen uptake and cell division processes, completes the formulation.

The presence of Molybdenum is also linked to the activity of microorganisms in the soil profile close to the seed, particularly the symbiotic bacteria specific to leguminous plants.

FAVORS GERMINATION IMPROVES ROOTING SUPPORTS SEEDLINGS IN THEIR INITIAL

GROWTH PHASES

COMPOSITION		
Boron (B)	Soluble in water	0,3%
Copper (Cu)	Soluble in water	0,1%
Copper (Cu)	Chelated with EDTA	0,1%
Molybdenum (Mo)	Soluble in water	0,1%
Zinc (Zn)	Soluble in water	1,5%
Zinc (Zn)	Chelated with EDTA	0,81%

PHYSICO-CHEMICAL CHARACTERISTICS		
LIQUID		
pH (sol 1%)	4,5	
Conductivity E.C. µS/cm (1‰)	120	
Density (g/cm³)	1,06	
NAM OF USE	<u></u>	
WAY OF USE	SEED TREATMENT	

PACKAGING: 12 Kg

DOSE RATE*: Based on the crop, 0,6-1,6 Kg of SEEDCURE 9 L CEREALI must be mixed with 100 Kg of seeds.

NOTE: SEEDCURE 9 L CEREALI can be mixed with the normal industrial antiparasitic treatments of the crops.

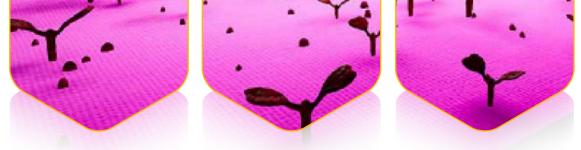






Moon, we could only land on Mars!

the hydroponic cultivation of microgreens will be set up in a self-supporting tent in the Armenian province of Ararat, which by geomorphological characteristics resembles the Martian surface. After conquering the



HYDROPONICS

The demographic growth expected in 2050, coupled with the reduction of cultivated areas and factors such as climate change, water quality and availability, call for the search of alternative farming methods in order to keep the necessary production levels and nourish the whole global population.

Among the various alternatives there is the so-called "off the ground" technique, also known as "hydroponics". With this particular type of farming, plant growth, together with its rooting system takes place above the ground, which is replaced by an inert substrate.

Water and nutrients are provided by a solution where they are "scientifically" combined to bring all the needed elements to the various developing phases of the crop.

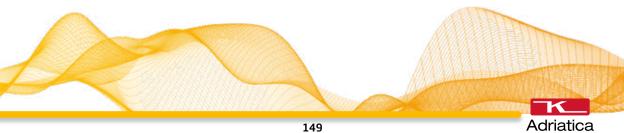
Hydroponics is a technology that stems from the application of the most innovative irrigation systems, from the management of controlled climatic factors in a protected environment, but also from a deep knowledge of plant physiology.

The main advantages of hydroponics are:

- lower use of water (up to 95%) compared to the traditional farming systems possibility of installing the system also in non-cultivable lands
- reduction of parasites and soil-borne diseases
- improved crop production
- crops reach maturity much faster if compared to the traditional farming systems

K-Adriatica proposes the IDROFILL LINE for the "off the ground" crops, even though one should consider that hydroponic farming should be managed by specialized teams that can adapt the nutritional solution to the different crop phases. The products of this line are a blend of the **purest low-conductivity salts**, which represent an optimal basis for the most sophisticated nutritional programs.

The IDROFILL line comprises the following products:



IDROFILL A

IDROFILL A has been studied to give "off the ground" plants an optimal combination of nutritive elements to favor a balanced development in the first growth phases.

COMPOSITION		
Total nitrogen (N)		14%
Nitric nitrogen (N)		13%
Ammoniacal nitrogen (N)		1%
Potassium oxide (K₂O)	Soluble in water	14%
Calcium oxide (CaO)	Soluble in water	15,5%
Iron (Fe)	chelato con (o/p) EDDHA	0,22%
Iron (Fe)	chelato con (o/o) EDDHA	0,08%

PHYSICO-CHEMICAL CHARACTERISTICS		
SOLUBLE POWDER		
pH (sol 1%)	6	
Conductivity E.C. µS/cm (1‰)	1390	
WAY OF USE	•	
WAT OF USE	HYDROPONICS	

PACKAGING: 5 - 25 Kg

CROP	APPLICATION TIME	DOSE*
Horticultural crops	At early vegetative phases	0,5-1,5 g/liter
Flowers and Ornamentals	At early vegetative phases	0,5-1,0 g/liter
Strawberries	At early vegetative phases	0,5-1,2 g/liter
Seedbeds	At early vegetative phases	0,5-1,0 g/liter

NOTE: The dose of **IDROFILL A** is determined by the characteristics of the water being used, by the cultivated plant's nutritive needs and by the time of application. The inclusion of **IDROFILL A** in the nutritional plan of an "off the ground" crop is always decided by the specialised technician following the crop.



IDROFILL B

IDROFILL B has been studied to give "off the ground" plants an optimal combination of nutritive elements to boost plant development in the second phase of the life cycle.

The high potassium content, the balance between the macroelements and the presence of microelements in their chelated form, induce an improvement of the organoleptic and commercial parameters.

It is particularly recommended for the "off the ground" cultivation of tomatoes.

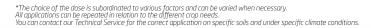
COMPOSITION		
Total nitrogen (N)		5%
Nitric nitrogen (N)		5%
Phosphoric anhydride (P₂O₅)	Soluble in neutral ammonium citrate and water	12,5%
Phosphoric anhydride (P₂O₅)	Soluble in water	12,5%
Potassium oxide (K₂O)	Soluble in water	25,5%
Magnesium oxide (MgO)	Soluble in water	5,4%
Sulfuric anhydride (SO₃)	Soluble in water	10,4%
Boron (B)	Soluble in water	0,1%
Copper (Cu)	Soluble in water	0,01%
Copper (Cu)	Chelated with EDTA	0,01%
Manganese (Mn)	Soluble in water	0,1%
Manganese (Mn)	Chelated with EDTA	0,1%
Molybdenum (Mo)	Soluble in water	0,01
Zinc (Zn)	Soluble in water	0,05%
Zinc (Zn)	Chelated with EDTA	0,05%

PHYSICO-CHEMICAL CHARACTERISTICS	
SOLUBLE POWDER	
pH (sol 1%)	5
Conductivity E.C. µS/cm (1‰)	1140
WAY OF USE	•
WAY OF USE	HYDROPONICS

PACKAGING: 5 - 25 Kg

CROP	APPLICATION TIME	DOSE*
Horticultural crops	At the final phases of the crop cycle	0,5-1,5 g/liter
Flowers and Ornamentals	At the final phases of the crop cycle	0,5-1,0 g/liter
Strawberries	At the final phases of the crop cycle	0,5-1,2 g/liter
Seedbeds	At the final phases of the crop cycle	0,5-1,0 g/liter

NOTE: The dose of **IDROFILL B** is determined by the characteristics of the water being used, by the cultivated plant's nutritive needs and by the time of application. The inclusion of **IDROFILL B** in the nutritional plan of an "off the ground" crop is always decided by the specialised technician following the crop.





IDROFILL BASE

IDROFILL BASE is a formulation to be generally applied on all crops, regardless of their phenological phase.

The balanced ratio between the macroelements and the complete range of chelated microelements, make **IDROFILL BASE** a balanced formulationfor hydroponic farming so that it can provide for the crop nutritive requirements throughout the whole cycle, without causing nutritional imbalances.

It is particularly indicated for leafy and fruiting vegetables and all ornamentals.

COMPOSITION		
Total nitrogen (N)		10%
Nitric nitrogen (N)		10%
Phosphoric anhydride (P₂O₅)	Soluble in neutral ammoniacal citrate	5%
Phosphoric anhydride (P₂O₅)	Soluble in water	5%
Potassium oxide (K₂O)	Soluble in water	23%
Calcium oxide (CaO)	Soluble in water	8%
Magnesium oxide (MgO)	Soluble in water	2%
Boron (B)	Soluble in water	0,01%
Copper (Cu)	Soluble in water	0,002%
Copper (Cu)	Chelated with EDTA	0,002%
Iron (Fe)	Soluble in water	0,02%
Iron (Fe)	Chelated with EDTA	0,02%
Manganese (Mn)	Soluble in water	0,01%
Manganese (Mn)	Chelated with EDTA	0,01%
Molybdenum (Mo)	Soluble in water	0,001
Zinc (Zn)	Soluble in water	0,002%
Zinc (Zn)	Chelated with EDTA	0,002%

PHYSICO-CHEMICAL CHARACTERISTICS	
SOLUBLE POWDER	
pH (sol 1%)	3,31
Conductivity E.C. µS/cm (1‰)	1020
WAY OF USE	•
WAT OF USE	HYDROPONICS

PACKAGING: 5 - 25 Kg

CROP	APPLICATION TIME	DOSE*
Horticultural crops	Throughout the whole crop cycle	0,5-1,5 g/liter
Flowers and Ornamentals	Throughout the whole crop cycle	0,5-1,0 g/liter
Strawberries	Throughout the whole crop cycle	0,5-1,2 g/liter
Seedbeds	Throughout the whole crop cycle	0,5-1,0 g/liter

NOTE: The dose of **IDROFILL BASE** is determined by the characteristics of the water being used, by the cultivated plant's nutritive needs and by the time of application. The inclusion of **IDROFILL BASE** in the nutritional plan of an "off the ground" crop is always decided by the specialised technician following the crop.





KIWIFRUIT: the Solutions of K-Adriatica

	Post-HARVEST														GOLD DUST 15N + eK-lon MAX (6 Kg/ha + 3 Kg/ha)		KODENS Cu 12-6 (1 Kg/ha)
	RIPENING														GOLD DUST 15 (6 Kg/ha		
	Veraison				HENDOSAR (40-60 Kg/ha)							:CIAL PK 6-60 ;/ha)		^DRY-K 30 (6 Kg/ha)			
	F RUIT DEVEOPMENT			GEOSAN L (40-80 Kg/ha)		HYDRO KOMBY 40 (25-50 Kg/ha)					KAMAB 26 (6 Kg/ha)	FILL BRIX SPECIAL PK 6-60 (3 Kg/ha)	PHARMAMIN-M + eK-lon MAX (4 Kg/ha+3 Kg/ha)				
	FRUIT SET				HENDOSAR (40-60 Kg/ha)											^CHITO K 500 (5-10 Kg/ha)	
	FLOWERING			GEOSAN L (40-80 Kg/ha)				ı + ERGON 3 Kg/ha)	A.AN L 13186 1 Kg/ha)	FILL NPK 21-21-21 (2 Kg/ha)						7 13	IS Cu /ha)
W.	S ноот DEVELOPMENT	7-21 /ha)			HENDOSAR (40-60 Kg/ha)		:K-lon MAX Kg/ha)	ACTIMOL 80 + ERGON (1 Kg/ha+ 3 Kg/ha)	ENA 19989 + RA.AN L 13186 (1 Kg/ha + 1 Kg/ha)	FILL							KODENS Cu (1 Kg/ha)
*	Bud Burst	IDRON 14-7-21 (25-50 Kg/ha)	IDRON 9-50-9 (25-50 Kg/ha)	GEOSAN L (40-80 Kg/ha)			ZINCAL Mo Ca + eK-Ion MAX (2 Kg/ha + 3 Kg/ha)				KAMAB 26 (6 Kg/ha)						u 12-6 ha)
*	DORMANT BUD																KODENS Cu 12-6 (1 Kg/ha)
FERTIGATION APPLICAZIONE FOLIAR		Boosts vegetative restart	Promotes abundant flowering	Improves the rhizosphere Promotes nutrient uptake	In case of saline/saline-sodic soils	Increases fruit size Improves size uniformity Increases Brix levels	Promotes an intense and balanced vegetative restart	Improves photosynthetic efficiency Enhances flowering	Promotes fruit set and fruit development	Improves fruit size	Prevents physiological disorders Improves fruit texture	Improves fruit size Increases the Brix levels	Improves fruit color uniformity Increases Brix levels	Reduces the incidence of cracking improves fruit texture Prolongs shelf-life	Favors following year vegetative restart	Activates natural resistance inducers	Improves resistance to cold, humidity and rain damage Triggers cicatrization

 $^{\circ}$ It is recommended to use a maximum of 200-400 litres of water per hectare per application. These are general indications that may vary according to the variety and nutritional conditions of the crop.



CITRUS: the Solutions of K-Adriatica

FERTIGATION FOLIAR APPLICATION		Y		S.		然			6
	Во вмант Вир	Bud Burst	S ноот D еvесорме N T	FLOWERING	FLOWERS FADING	F RUIT SET	FRUIT DEVELOPMENT	Veraison	RIPENING
Boosts vegetative restart		IDRON 14-7-21 (25-50 Kg/ha)	4-7-21 (g/ha)						
Induce un'abbondante fioritura Promotes abundant flowering		IDRON 9-50-9 (25-50 Kg/ha)							
Improves nutrient uptake, even under salinity or osmotic stress conditions		HENDOSAR (40-60 Kg/ha)		HENDOSAR (40-60 Kg/ha)		HENDOSAR (40-60 Kg/ha)			
Increases fruit size Improves size uniformity Increases Brix levels						HYDRO F (25-50	HYDRO KOMBY 40 (25-50 Kg/ha)		
Promotes an intense and balanced vegetative restart		ZINCAL Mo Ca + eK-lon Max (2 Kg/ha + 3 Kg/ha)	+ eK-lon Max 3 Kg/ha)						
Promotes plant growth Enhances flowering Favors fruit set			ENA	ENA 19989 + ACTIMOL 80 + eK-lon MAX (1 Kg/ha + 1 Kg/ha + 3 Kg/ha)	. 80 + eK-lon MAX a + 3 Kg/ha)				
Improves fruit size						ER (3 K	ERGON (3 Kg/ha)		
Prevents physiological disorders Improves fruit texture					KAMAB 26 (6 Kg/ha)	3 26 ha)			
Improves fruit size Increases Brix levels								FILL BRIX SPECIAL (3 Kg/ha)	FILL BRIX SPECIAL PK 6-60 (3 Kg/ha)
Improves fruit color uniformity Increases Brix levels								PHARMAMIN-M+ eK-lon MAX (6 Kg/ha+ 3 Kg/ha)	I+ eK-lon MAX 3 Kg/ha)
Reduces the incidence of cracking Improves fruit texture Prolongs shelf-life							^DRY-K 30 (6 Kg/ha)		
Protects against scorching							SCUDO K (3-4 Kg/ha)		
Induces natural resistance					^CHITO K 500 (5-10 Kg/ha)	500 ha)			

°It is recommended to use a maximum of 200-400 litres of water per hectare per application. These are general indications that may vary according to the variety and nutritional conditions of the crop. To define the ideal number of applications and the doses to be used, please contact the K-Adriatica Technical Service.



STONE FRUITS: the Solutions of K-Adriatica

FERTIGATION FOLIAR APPLICATION	A		A STATE OF THE STA					
	DORMANT BUD	Bud Swelling	FLOWERING	FRUIT SET	FRUIT Development	VERAISON	HARVEST	POST-HARVEST
Promotes a balanced growth Improves soil fertility		IDRON (25-5)	IDRON 14-7-21 (25-50 Kg/ha)					
Improves the vitality of the rhizosphere	95	GEOSAN L NPK 8-6-6 (40-80 Kg/ha)		GEOSAN L (40-80 Kg/ha)	4N L Kg/ha)			
Enhances flowering		IDRON 9-50-9 (25-50 Kg/ha)						
Improves fruit texture Enhances nutrient absorption, even under salinity or osmotic stress conditions		HENDOSAR (40-60 Kg/ha)		HENDOSAR (40-60 Kg/ha)		HENDOSAR (40-60 Kg/ha)		
Improves fruit size and uniformity Increases Brix levels					HYDR (25-	HYDRO KOMBY 40 (25-50 Kg/ha)		
Promotes an intense and balanced vegetative restart		ACTIMOL 80 + eK-lon MAX (1 Kg/ha+ 3 Kg/ha)						
Enhances flowering and boosts fruit set		ZINCAI (2	ZINCAL Mo Ca + eK-lon Max (2 Kg/ha + 3 Kg/ha)					
Promotes fruit set			ENA 19989 + eK-lon MAX (1 Kg/ha + 3 Kg/ha)					
Improves fruit size			FILL NPK 21-21-21 (2 Kg/ha)	21				
Prevents physiological disorders Improves fruit texture		KAMAB 26 (6 Kg/ha)		KAMAB 26 (6 Kg/ha)	B 26 /ha)			
Induces natural resistance					,CHI.	CHITO K 500 (5-10 Kg/ha)		
Improves fruit size Increases Brix levels					FILL BRIX	FILL BRIX SPECIAL PK 6-60 (3 Kg/ha)		
Improves fruit color uniformity Increases Brix levels						PHARMAMIN-M + eK-lon MAX (4 Kg/ha + 3 Kg/ha)		
Reduces the incidence of cracking Improves fruit texture Prolongs shelf-life							^DRY-K 30 (6 Kg/ha)	
Favors following year vegetative restart								eRGON + eK-lon MAX (6 Kg/ha + 3 Kg/ha)

'It is recommended to use a maximum of 200-400 litres of water per hectare per application. These are general indications that may vary according to the variety and nutritional conditions of the crop. To define the ideal number of applications and the doses to be used, please contact the K-Adriatica Technical Service





PHARMAMIN-M + eK-lon MAX RIPENING HYDRO KOMBY 40 (25-50 Kg/ha) FILL BRIX SPECIAL PK 6-60 (3 Kg/ha) (40-60 Kg/ha) DEVELOPMENT GEOSANL FRUIT FRUIT SET **KAMAB 26** (6 Kg/ha) IDRON Ca 10-5-23 B.T.C. (25-50 Kg/ha) (40-60 Kg/ha) FLOWERING **IDRON 14-7-21** (25-50 Kg/ha) FILL NPK 21-21-21 (2 Kg/ha) (1 Kg/ha + 3 Kg/ha) IDRON 9-50-9 (25-50 Kg/ha) ACTIMOL 80 + DEVELOPMENT eK-lon Max Vegetative SKICC + eK-lon MAX (5 Kg/ha + 3 Kg/ha) TRANSPLANTING RADICURE L (25 Kg/ha) (40-60 Kg/ha) **GEOSAN L** NEMASPOR GR 1036 (30-40 Kg/ha) Soil Preparation Enhances nutrient uptake, even under salinity or osmotic stress conditions Promotes an intense and balanced vegetative development Improves flowering and enhances fruit set Prevents physiological disorders Improves fruit texture Increases the microbial population Promotes rhizogenesis and root absorption Favors plant development in adverse conditions Increases fruit size Improves size uniformity Increases Brix levels Helps to overcome transplanting stress Enhances root growth Helps to overcome transplanting stress Promotes a balanced plant growth Prevents physiological disorders Improves fruit texture Promotes intense flowering Improves fruit texture Prolongs shelf-life Increases fruit size FOLIAR APPLICATION FERTIGATION



Improves fruit texture Prolongs shelf-life

Induces natural resistance

Increases fruit size Increases Brix levels

(4 Kg/ha + 3 Kg/ha)

*DRY-K 30 (6 Kg/ha)

"CHITO K 500 (5-10 Kg/ha)

MICROGRANULE

FOLIAR APPLICATION

MULL
O TO THE PERSON OF THE PERSON
 Coinc





FLOWERING

HEADING











































































































MICROPHOS Mo Zn NP 10-46

(25-40 Kg/ha)

ERGON (3 Kg/ha)

Improves grain protein and gluten content

Increases yield

FOLIAR APPLICATION

MICROGRANULE

Stimulates plant growth Enhances photosynthetic activity

Promotes root growth Starter effect













































































SKICC (4-6 Kg/ha), when applied with crop protection products, improves their efficacy.

BUTTERMIX Ca Mg + eK-lon MAX (3 Kg/ha + 3 Kg/ha)

MAGNISOL NZO Mo Zn (25 Kg/ha)

SKICC*+ eK-lon MAX (5 Kg/ha +3 Kg/ha)

MICROPHOS Zn NP 10-46 (25-40 Kg/ha)

Reduces herbicides' applications stress

Promotes root growth Starter effect

Improves yield quality and quantity

Promotes fruit set

Adriatica

SOYBEANS: the Solutions of K-Adriatica



* SKICC (4-6 Kg/ha), when applied with crop protection products, improves their efficacy.

These are general indications that may vary according to the variety and nutritional conditions of the crop. To define the ideal number of applications and the doses to be used, please contact the K-Adriatica Technical Service. Adriatica.





MICROGRANULE FERTIGATION FOLIAR APPLICATION		Λ			4	1		0	
	Vegetative Stasis	Bud Development	Inflorescence Emergence	Flowering	FRUIT SET	F RUIT D EVELOPMENT	Stone Lignification	Veraison	RIPENING
Supports plant growth and production	OLIVETO NPK 12-8-8 (400 Kg/ha)			OLIVETO NPK 12-8-8 (400 Kg/ha)		K-BIO PK 6 12 (500 Kg/ha)			
Triggers vegetative restart Maximize yield potential		IDRON 14-7-21 (25-50 Kg/ha)			IDRON 14-7-21 (25-50 Kg/ha)		MIKRO 12-6-36 (25-50 Kg/ha)		
Triggers vegetative restart Supports fruit growth				ERGON (3 Kg/ha)	ıN ha)				
Uniforms flowering Promotes fruit set Reduces flower shedding Improves plant growth			AGROBOR 11 (1 Kg/l	AGROBOR 11 L + ENA 19989 + eK-lon MAX (1 Kg/ha + 1 Kg/ha + 3 Kg/ha)	K-lon MAX /ha)				
Increases fruit size Improves oil quality and yield							FILL PK PLUS 40-52 (3-5 Kg/ha)		
Helps to overcome physiological and abiotic stress					SKICC* + eK-lon MAX (5 Kg/ha +3 Kg/ha)	K-lon MAX			
Reduces heat stress damage Repels insects						SCL (4-5	SCUDO K (4-5 Kg/ha)		
Enhances plant vigor Strengthens plant defences	KODENS Cu 12-6 (1-1,5 Kg/ha)	Cu 12-6 (g/ha)					KODENS (1-1,5	KODENS Cu 12-6 (1-1,5 Kg/ha)	





ne Solutions of K-Adri

MICROGRANULE	一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一	で、地域では			
FERTIGATION					とは大
FOLIAR APPLICATION		では原じた様	1		
	TRANSPLANTING	POST -TRANSPLANTING	LEAF DEVELOPMENT	неа D Formation	HARVEST
Promotes root growth improves soil local microflora vitality improves soil local microflora vitality Enhances mizosphere activity and health	NEMASPOR GR 1036 (25-40 Kg/ha)				
Favors rooting after transplanting		RADICURE L (25 Kg/ha)			
Promotes root growth		IDRON 9-50-9 (25-50 Kg/ha)			
Supports plant growth Strengthens plant tissues			MIKRO 20-20-20 (25-50 Kg/ha)	MIKRO 20-20-20 (25-50 Kg/ha)	
Prevents and cures leaf apical necrosis (tip burn) Improves plant tissues texture			<u> </u>	IDRON Ca 10-5-23 B.T.C. (25-50 Kg/ha)	
In case of salinity excess		HENDOSAR (40-60 Kg/ha)	JSAR (g/ha)		
Improves nitrogen uptake Increases photosynthetic efficiency		ACTIMOL 80 (1 Kg/ha)	nt 80 ha)		
Enhances plant nutritional and abiotic stress response			SKICC*+ eK-lon MAX (5 Kg/ha +1 Kg/ha)		
Strengthens plant tissues Favors the photosynthetic process				FILL K 40 + 4 MgO (3 Kg/ha)	4 Mg0 na)
Induces natural resistance				^CHITO K 500 (4-8 Kg/ha)	



	HARVEST									FILL BRIX SPECIAL PK 6-60 (3 Kg/ha)		
9	VERAISON (CHANGE OF COLOR)						HENDOSAR (40-60 Kg/ha)			FILL BRIX SP (3 K		
	FRUIT DEVELOPMENT					IDRON Ca 10-5-23 B.T.C. (25-50 Kg/ha)			SKICC*+ eK·lon MAX (5 Kg/ha +3 Kg/ha)		SCUDO K (3-4 Kg/ha)	
	FRUIT SET			IDRON 14-7-21 (25-50 Kg/ha)		Q	HENDOSAR (40-60 Kg/ha)	ACTIMOL 80 (1 Kg/ha)				^CHITO K 500 (4-8 Kg/ha)
	FLOWERING				IDRON 9-50-9 (25-50 Kg/ha)			•	SKICC*+ eK-lon MAX (5 Kg/ha +3 Kg/ha)			
	POST-TRANSPLANTING		RADICURE L (25 Kg/ha)		IDRON 9-50-9 (25-50 Kg/ha)		HENDOSAR (40-60 Kg/ha)		SKICC*+ eK-lon MAX (5 Kg/ha +3 Kg/ha)			
	TRANSPLANTING	NEMASPOR GR 1036 (25-40 Kg/ha)										
MICROGRANULE FERTIGATION	FOLIAR APPLICATION	Promotes root growth Improves filtographer witality Enhances soil local microflora	Promotes root growth	Favors rooting after transplanting	Improves flowering	Prevents and cures apical rot and calcium-deficiency physiological disorders Improves fruit texture	In case of excess salinity	Promotes flowering and fruit set	Enhances plant nutritional and abiotic stress response	Improves fruit color Favors sugar accumulation (Brix level) Increseas dry matter	Reduces scorching incidence	Induces natural resistance

* SKICC (4-6 Kg/ha), when applied with crop protection products, improves their efficacy lt is recommended to use a maximum of 200-400 litres of water per hectare per treatment. These are general indications that may vary according to the variety and nutritional conditions of the crop.

To define the ideal number of applications and the doses to be used, please contact the K-Adriatica Technical Service.



S: the Solutions of K-Adriatica 日本 大きの 大きの 一 200 E FR

	Роѕт-навуеѕт													ERGON + eK-lon MAX (6 Kg/ha + 3 Kg/ha)
	Pre-harvest									BUTTERFILL K (3-5 Kg/ha)	1 + eK-lon MAX · 3 Kg/ha)			
	Veraison		GEOSAN L (40 Kg/ha)		HYDRO KOMBY 40 (25-50 Kg/ha)	HENDOSAR (40-60 Kg/ha)				BUTTERFILL (3-5 Kg/ha)	PHARMAMIN-M + eK-lon MAX (4 Kg/ha + 3 Kg/ha)	SCUDO K (3-4 Kg/ha)		
	FRUIT DEVELOPMENT				HYDRO K (25-50					KAMAB 26 (4-6 Kg/ha)				
	F RUIT SET					HENDOSAR (40-60 Kg/ha)			K-Ion MAX g/ha)	KAM) (4-6 F			^CHITO K 500 (5-10 Kg/ha)	
	FLOWERING	4-7-21 (g/ha)							ACTIMOL 80 + ENA 19989 + eK-lon MAX (1 Kg/ha + 1 Kg/ha + 3 Kg/ha)					
	Pre-flowering	IDRON 14-7-21 (25-50 Kg/ha)	GEOSAN L (40 Kg/ha)	9-50-9 Kg/ha)		HENDOSAR (40-60 Kg/ha)		+ eK-lon Max 3 Kg/ha)	ACTIMOL 8 (1 Kg/					
	Mouse-ear stage			IDRON 9-50-9 (25-50 Kg/ha)			eK-lon Max 3 Kg/ha)	ZINCAL Mo Ca + eK-lon Max (2 kg/ha + 3 Kg/ha)						
	DORMANT BUD		GEOSAN NPK 8-6-6 (80 Kg/ha)				AGROVIT LS + eK-lon Max (1 Kg/ha + 3 Kg/ha)							
FERTIGATION FOLIAR APPLICATION		Promotes a balanced plant growth Enhances soil fertility	Improves rhizosphere vitality	Enhances flowering	Increases fruit size and uniformity Increases Brix levels	In case of salinity excess	Prevents micronutrient deficiencies Helps the vegetative restart	Promotes flowering and fruit set	Improves flowering and fruit set Stimulates fruit development	Prevents physiological disorders (bitter pit, superficial scald, etc.) Improves fruit texture	Increases Brix levels Improves fruit color uniformity	Reduces russeting and scorching incidence	Induces natural resistance	Favors following year vegetative restart

"It is recommended to use a maximum of 200-400 litres of water per hectare per application. These are general indications that may vary according to the variety and nutritional conditions of the crop. To define the ideal number of applications and the doses to be used, please contact the K-Adriatica Technical Service.



TABLE GRAPES: the Solutions of K-Adriatica

	Post-Harvest											ERGON + eK-lon MAX (6 Kg/ha + 3 Kg/ha)
	Рке-накуезт								PHARMAMIN-M + eK-lon MAX (4 Kg/ha + 3 Kg/ha)	^DRY-K 30 (6 Kg/ha)		
	Veraison			HYDRO KOMBY 40 (25-50 Kg/ha)					PHARMAMIN-M + eK-lon (4 Kg/ha + 3 Kg/ha)	^DRY (6 Kg		
	MAJORITY OF BERRIES TOUCHING	GEOSAN L (40-80 Kg/ha)										
	Berries Beginning to Touch			HYDRO KOMBY 40 (25-50 Kg/ha)						^DRY-K 30 (6 Kg/ha)		
	Berries Pea-sized, Bunches Hang			HYDRO K (25-50				26 ha)			^CHITO K 500 (5-10 Kg/ha)	
-	FRUIT SET						- eK-lon MAX Kg/ha)	KAMAB 26 (4-6 Kg/ha)			, 0	
	FLOWERING						ACTIMOL 80 + ENA 19989 + eK-lon MAX (1 Kg/ha + 1 Kg/ha + 3 Kg/ha)					
	INFLORESCENCE CLEARLY VISIBLE	GEOSAN L (40-80 Kg/ha)	IDRON 9-50-9 (25-50 Kg/ha)			· eK·lon Max 3 Kg/ha)	ACTIMOL 80 (1 Kg/h	3 26 /ha)				
	LEAF DEVELOPMENT				AGROVIT LS + eK-lon MAX (1 kg/ha +3 Kg/ha)	ZINCAL Mo Ca + eK-lon Max (2 Kg/ha + 3 Kg/ha)		KAMAB 26 (4-6 Kg/ha)				
	Bud Burst				AGROVIT (1 kg/)							
FERTIGATION FOLIAR APPLICATION		Improves rhizosphere vitality	Enhances flowering	Increases bunch size and uniformity Increases Bitx levels	Prevents micronutrient deficiencies Helps the vegetative restart	Promotes flowering and fruit set	Favors stem elongation	Prevents stem necrosis and other physiological disorders Improves berries' texture	ncreases Brix levels Improves coloring	Reduces cracking and sour rot incidence Prolongs shelf-life	Induces natural resistance	Favors following year vegetative restart

'It is recommended to use a maximum of 200-400 litres of water per hectare per application. These are general indications that may vary according to the variety and nutritional conditions of the crop. To define the ideal number of applications and the doses to be used, please contact the K-Adriatica Technical Service.



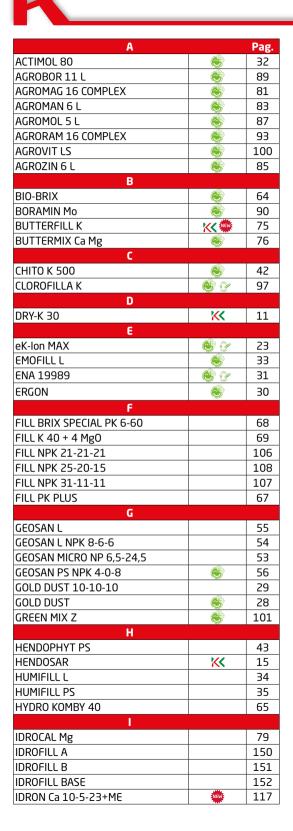


FERTIGATION	1		1	100 mg		*				・・	
FOLIAR APPLICATION					2						る。
	Bud Burst	LEAF DEVELOPMENT	INFLORESCENCE CLEARLY VISIBLE	FLOWERING	FRUIT SET	Berries Pea-sized, Bunches Hang	BERRIES BEGINNING TO TOUCH	Majority of Berries Touching	Veraison	Pre-Harvest	Post-harvest
Improves rhizosphere vitality			GEOSAN L (40 Kg/ha)					GEOSAN L (40 Kg/ha)			
Enhances flowering			IDRON 9-50-9 (25-50 Kg/ha)								
Increases bunch size and uniformity Increases Brix levels						HYDRO KOMBY 40 (25-50 Kg/ha)	(g/ha)		HYDRO KOMBY 40 (25-50 Kg/ha)		
Prevents micronutrient deficiencies Helps the vegetative restart	AGRO	AGROVIT LS + eK-lon MAX (1 Kg/ha + 3 Kg/ha)									
Promotes stem elongation Reduces millerandage		BORAMIN Mo + eK-lon MAX (2 Kg/ha + 3 Kg/ha)	ACTIMOL 80 + ENA 19989 + eK-lon MAX (1 Kg/ha + 1 Kg/ha + 3 Kg/ha)								
Prevents stem necrosis Improves berries' texture						KAMAB 26 (4-6 Kg/ha)					
Increases Brix levels Improves coloring									PHARMAMIN-M + eK-lon MAX (4 Kg/ha + 3 Kg/ha)	αміN-м n MAX ∙3 Kg/ha)	
Reduces sour rot incidence										^DRY-K 30 (6 Kg/ha)	
Induces natural resistance				^CHITO K 500 (5-10 Kg/ha)	0 -						
Favors following year vegetative restart											eK-lon MAX (6 Kg/ha +

"It is recommended to use a maximum of 200-400 litres of water per hectare per application. These are general indications that may vary according to the variety and nutritional conditions of the crop. To define the ideal number of applications and the doses to be used, please contact the K-Adriatica Technical Service.



ALPHABETICAL INDEX



K		Pag.
KAMAB 26	KK	9
K-FERRO	6	98
K-FERT BIO	0	134
KODENS Cu	8	45
KODENS Cu 12-6	8	46
KODENS Cu Gel formulation	8	47
KOLFER	8	96
KOMBY		143
L		
ACTIVE GOLD LINE		118
BULL LINE		121
FLU-FERT LINE		120
IDRON LINE		116
K-FERT LINE		133
K-SOL LINE		119
MICROGRANULI LINE		124
MIKRO LINE		122
N-G000 LINE		131
M		
MAGNISOL N20 Mo Zn		111
MICOPLAS GR SOY		59
N		
NEMASPOR GR 1036	6	58
N-G000 NITROSTOP PLUS	NEW	132
NITRACID		138
NITROCAL L		78
NOFROST		17
NUTRI BIO	8	27
0		
ORTFRUTKAL NPK 9-5-18	NEW	132
Р		
PHARMAMIN-M	KK	13
POLIFILL NPK 5-20-5		109
POLIFILL PK ALPHA 21-27		66
R	400	
RA.AN 13156	6 9	24
RA.AN L 13186	6 9	25
RADICURE L	6	36
S	- AST	
SCUDO K		37
SEEDCURE 9 L CEREALS	8	147
SEQUIFILL 6.0 T SS		95
SKICC	KK	19
SYNCRON		139
Ť		
TENSIOFILL		144
TIOAMMON		145
Z		
ZINCAL Mo Ca		77



Our commitment goes beyond agriculture.

This is why we have established **FONDAZIONE KAPPA**, a foundation with a charitable purpose to generate value also in the social and environmental context in which we carry out our business.





ADRIATICA SPA

Strada Dogado 300, 19-21 45017 Loreo (ROVIGO) ITALY Tel. +39 0426 669611 info@k-adriatica.it

www.k-adriatica.it

