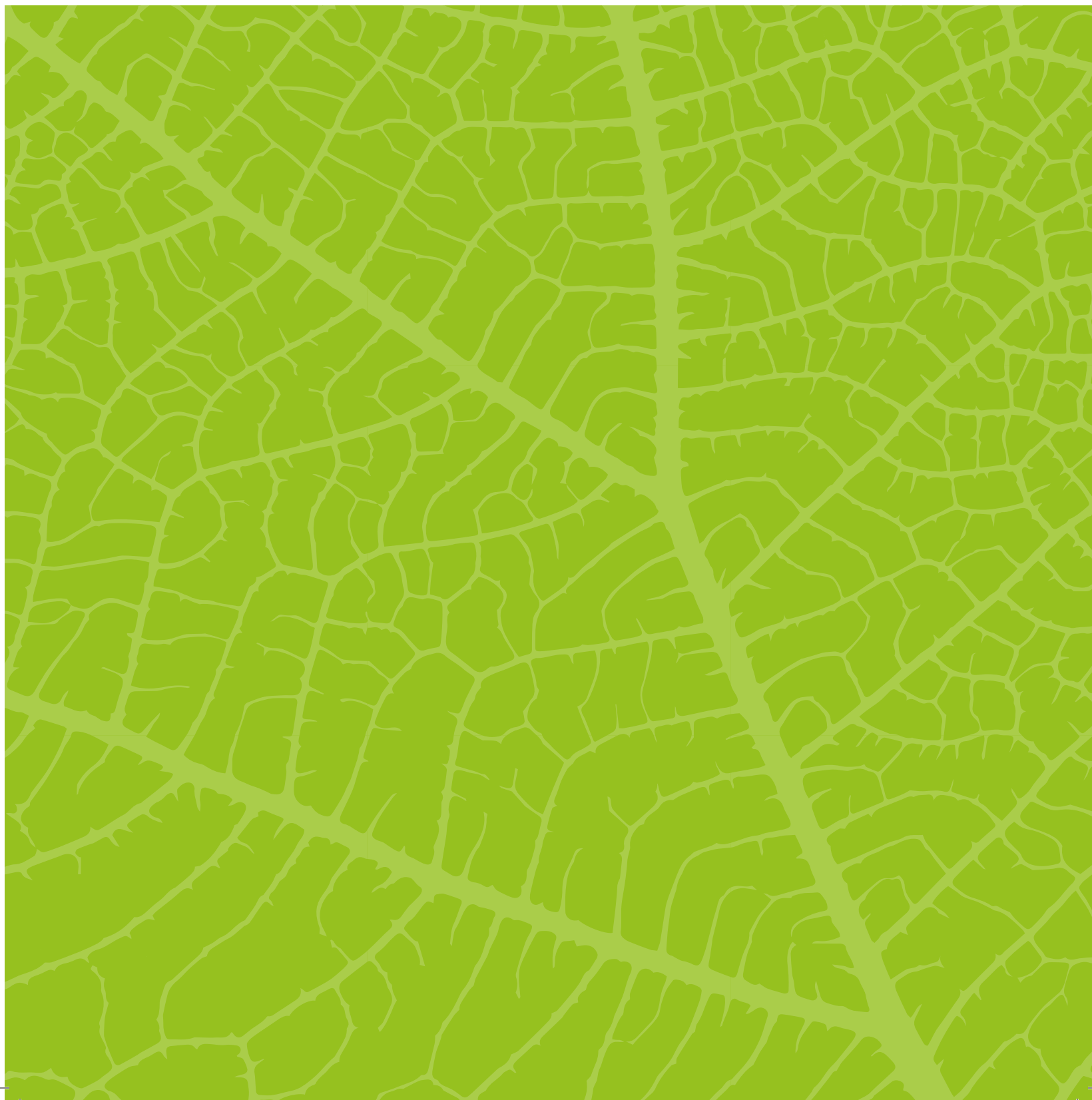




PRODUCTS CATALOGUE





 **FITONATURA**

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# COMPANY

The relationship between agriculture and fertilizers is essential and, thanks to this bond, men have been able to satisfy the growing quantitative and qualitative needs of agricultural productions.

Fitonatura originates from an entrepreneurial idea of researching **MADE IN ITALY** excellences in the fertilizer sector, thanks to a thorough attention to details, this way guaranteeing the commercialization of biostimulants and special, advanced fertilizers, which are the result of meticulous scientific research and of the help of the latest technologies in the field of vegetal nutrition.

The relationship with customers is fundamental to us and it is at the centre of our work. We guarantee technical and commercial assistance in every phase of agricultural productions, so that your success become also our success. Quick assistance and product quality are the virtues that our customers acknowledge about us all over the world.

Our liquid fertilizers are not just simple mixtures, but in most cases they derive from highly complex chemical reactions, which guarantee a high purity and density of the products.

This translates into a complete **BIOAVAILABILITY** of the nutritional elements to the plants.

For powder fertilizers we have set a high bar for the rest of the market.

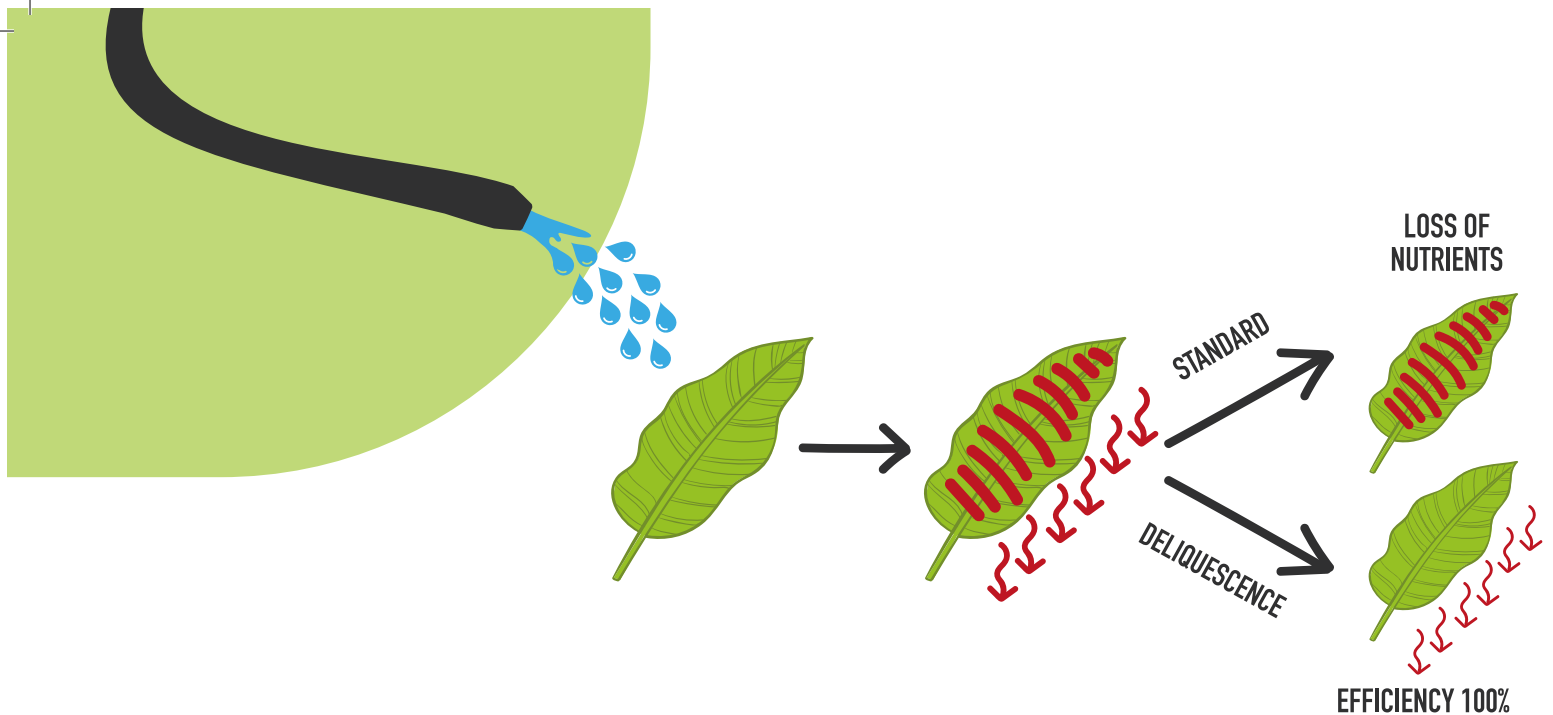
Fitonatura includes a line of water-soluble, powder premium fertilizers, which are characterized by an extraordinary ability of **DELIQUESCENTE**, guaranteeing once again maximum efficiency of the elements provided to the plant, as well as a saving for the farmer.

# ORGANIC FARMING

Organic farming is a cultivation method that has been increasingly growing all over the world in the last few years. It is a cultivation method where the agricultural ecosystem is considered as a balanced model for the development of the plants.

Fitonatura responds to this need with an Organic Farming line, especially designed to provide customers with a complete range of products for every production need.





# DELIQUESCENCE

## What is deliquescence?

It is the conversion of a solid substance into liquid form, after the absorption of the humidity in the air.

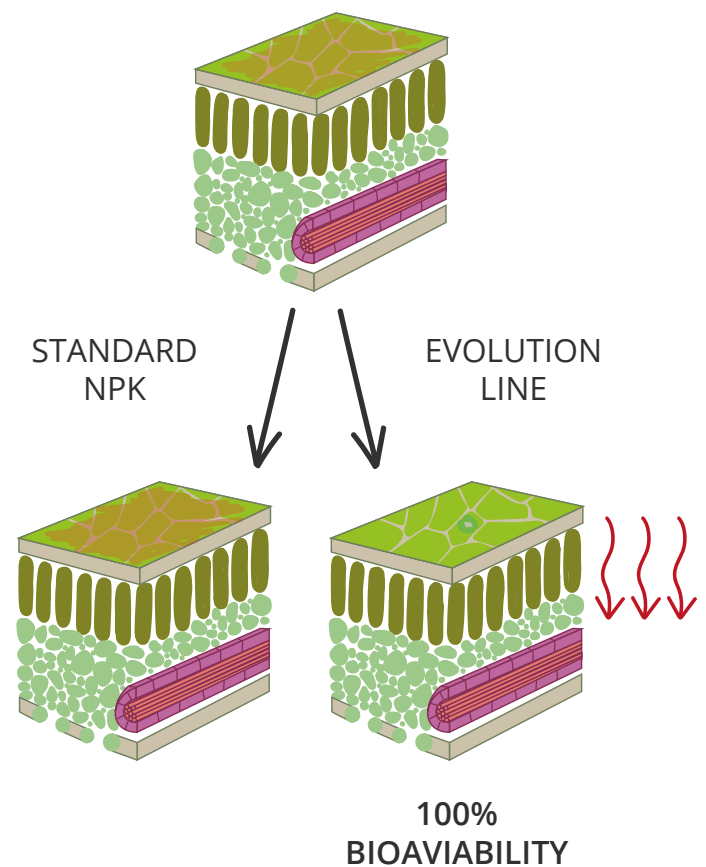
When we apply a mixture with water-solubles, especially on warm and sunny days, the natural consequence is the evaporation of the water and the subsequent formation of a saline, solid layer on the leaf.

In normal circumstances, this layer would represent a loss in terms of elements for the plant as well as an economical loss for the farmer.

Thanks to the water-solubles from the Premium line of Fitonatura, this is not a problem anymore, since the potential of deliquescence is utilized, thanks to a selection of specific raw materials for this technology. This way, thanks to the relative humidity of the air in the first hours of the morning, the saline layer becomes once again soluble and available to the plant.

This technology is especially important for crops where the possibility of physically accessing the the soil with mechanical vehicles is limited (such as industrial crops). Therefore, the efficacy of the fertilizer represents an essential aspect for business and production economics.

After the application of the solution, we have an evaporation of water and an insoluble saline layer







# BIOAVAILABILITY

Using a fertilizer with high bioavailability means providing plants with easily absorbable nutritional elements, with a subsequent respect of the environmental impact and a reduction of resource waste.

Labels of products by different manufacturers are often compared, assessing directly the numbers of the formula. However, one question is often overlooked: how many of the elements are available to the plant, and how many will instead be insoluble, due to a reaction with calcium carbonates present in water?





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# BIOACTIVATORS

The new **BIOACTIVATORS** of Fitonatura, which are the result of the combination of the best technologies in the field of vegetal nutrition, have been created to meet every need of the phenological phase and of the development of the crops.

These products have a specific action on the plants, improving the qualitative and quantitative aspects of agricultural productions, and thus also the economic margin of our customers.



**FITONATURA ALGANT** is a bioregulator of the root apparatus, based on seaweeds extracts and selected yeasts.

**FITONATURA ALGANT** is rich in phytohormones, auxins and natural cytokinins, as well as several organic compounds such as aminoacids, proteins, sugars and vitamins. The richness of the phytocomplexes present in **FITONATURA ALGANT** carries out a bioregulator action on the plant, stimulating the constant emission of new root hairs, allowing the plant to extend to new areas of the soil.

For the treatment of seeds, we suggest the use of **FITONATURA ALGANT** (1l/t of seeds) associated with **FITONATURA P SPEED** (1l/t of seeds) or by itself at a dosage of 2 l/t of seeds.

**FITONATURA ALGANT** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline, cupric, Sulphur-based products and mineral oils. Avoid using with Fosetyl-Al, Triforine and Dodine. For sensitive crops, make a preliminary test on a few plants before making extensive applications.

ALLOWED IN ORGANIC FARMING 

Promotes the development of the root system in foliar application

Makes the absorption of nutrients more efficient

Improves the resistance to (thermal and water) stress

ORGANIC FERTILIZER BASED ON SEAWEEDES EXTRACTS

**COMPOSITION % w/w (equivalent to % w/v at 20°C)**

Organic nitrogen (N)	2% w/w	(2.3% w/v)
Organic carbon (C)	14% w/w	(16.1% w/v)
Organic matter	30% w/w	(34.5% w/v)



Balances the development of the plant

Reduces transplantation-related stress both via foliar applications and via dipping and fertirrigation

Advances and homogenizes the emergence of seeds through seed treatment

VITAMINS (B5)

**PHYSICAL AND CHEMICAL PROPERTIES**

Density at 20°C: 1.15 g/ml

pH (1% w/w aqueous solution at 20°C): 5.5 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 200 µS/cm

CROPS	APPLICATION RATES FOLIAR	STAGES AND RECOMMENDATIONS
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	1.5 - 2 l/ha	Before flowering, during fruit set and at the beginning of ripening
CEREALS	1.5 - 2 l/ha	To support roots development
GREENHOUSE HORTICULTURE	100 - 300 ml/1000 m <sup>2</sup>	At transplanting, at 3 <sup>rd</sup> / 4 <sup>th</sup> leaf, before flowering and during fruit set
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	1.5 l/ha	
NURSERIES	100 ml/1000 m <sup>2</sup>	At 3 <sup>rd</sup> / 4 <sup>th</sup> leaf, at transplanting and in case of etiolation
FLOWERS AND ORNAMENTALS	100 ml/1000 m <sup>2</sup>	Before transplanting, before flowering and to stimulate the development of lateral buds
GRAFTED VINES: dip it in 300 - 500 ml/hl of Fitonatura Algant + 200 ml/hl of Fitonatura P Speed before transplanting		
Seed dressing: 200 ml/100 kg of seeds		
Dip seeds, bulbs and cuttings in 0.2 - 0.4% solution before sowing		
Fertigation: apply the product at the concentration of 2 - 3‰		



# FITONATURA FORTILIX

## ROOTING

**FITONATURA FORTILIX** is a formula with a biostimulating action, obtained from the condensation and selective hydrolysis of tannins derived from several vegetal essences.

The product contains polyphenols and organic acids, which, added to the complexing properties of tannins (34% p/p), act in the rhizosphere and on the plant, promoting the constant formation of new roots even in stress conditions. This allows the crops to occupy a larger volume of soil, moving the absorbing area to parts that have not yet been utilized and are therefore rich in nutritional elements.

**FITONATURA FORTILIX** is compatible with most herbicides and pesticides commonly used in agriculture with the exception of alkaline. The product is compatible with many fertilizers with the exception of the ones based on amino-acids and with high calcium / phosphorus content (especially if the solution has neutral or alkaline pH).

In any case, we suggest mixing tests before application. For sensitive crops, make a preliminary test on a few plants before making extensive applications.

BIOSTIMULANT / ORGANIC FERTILIZER

Promote the development of the root system in fertigation

**COMPOSITION % w/w (equivalent to % w/v at 20°C)**

Organic carbon (C)	20% w/w	(24.4% w/v)
Organic matter	44% w/w	(53.7% w/v)
Tannins	34% w/w	(43.2% w/v)

**PHYSICAL AND CHEMICAL PROPERTIES**

Density at 20°C: 1.22 g/ml

pH (1% w/w aqueous solution at 20°C): 6.0 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 50 µS/cm

CROPS	APPLICATION RATES FERTIGATION*	STAGES AND RECOMMENDATIONS
FRUIT TREES, GRAPES, VEGETABLES, INDUSTRIAL CROPS AND OPEN FIELD NURSERIES	6 l/ha	Every 10 days after planting, according to crop needs. The rate could be reduced at 3 l/ha for applications every 6/7 days. It is suggested to use 10 l/ha in difficult crop conditions.
GREENHOUSE CROPS, FLOWERS AND ORNAMENTALS	1 l / 1000 m <sup>2</sup>	3 - 4 days after transplanting every 15 - 20 days

Apply the product at the concentration of 2 - 3‰. Doses may refer to a single application.

\* FITONATURA FORTILIX can be applied both in fertigation (on areas irrigated by sprinkling) and through spray booms, with irrigation following.

Immersion of seeds in plateau: 3 g/l solution

# FITONATURA P SPEED

## ROOTING



**FITONATURA P SPEED** is a bioactivator that stimulates the development of the root apparatus of the plant. Thanks to its high content in phosphorus and magnesium enriched with iron and zinc in chelated form, **FITONATURA P SPEED** increases the emission of root hairs, accelerates the rooting of the plant after transplanting and promotes a balanced vegetative growth. The product has a starter effect on the crop, provides useful energy for metabolic activities and increases the photosynthetic ability of the plant even with low temperatures.

Thanks to its stimulating effect on the root apparatus and to its technical properties, **FITONATURA P SPEED** can be used for seed treatment, speeding up the developmental processes of the bud and the emergence. At the same time, the mineral nature and the acid pH of **FITONATURA P SPEED** promote the solubility and the efficacy of the active principles and of the nutritional elements present in the solution.

**FITONATURA P SPEED** is compatible with most herbicides and pesticides commonly used in agriculture with the exception of products containing calcium and zinc. For sensitive crops, make a preliminary test on a few plants before making extensive applications.

EC FERTILIZER  
INORGANIC COMPOUND FLUID FERTILIZER  
NP (Mg) FERTILIZER SOLUTION 3 - 27 (6)  
WITH IRON (Fe) AND ZINC (Zn)

### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	3% w/w	(4.2% w/v)
Ureic Nitrogen (N)	3% w/w	(4.2% w/v)
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water	27% w/w	(37.8% w/v)
Magnesium oxide (MgO) soluble in water	6% w/w	(8.4% w/v)
Iron (Fe) chelated by EDTA soluble in water	0.05% w/w	(0.07% w/v)
Zinc (Zn) chelated by EDTA soluble in water	0.1% w/w	(0.14% w/v)



*Vegetative post trasplanting start*

### PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C: 1.4 g/ml

pH (1% w/w aqueous solution at 20°C): 3.0 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 415 µS/cm

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	15 - 25 l/ha	2 - 4 l/ha	At the beginning of crop cycle and before flowering
HORTICULTURE CROPS	15 - 25 l/ha	2 - 5 l/ha	After transplanting and before flowering
EXTENSIVE CROPS	-	1.5 - 3 l/ha	From sowing to early flowering
INDUSTRIAL CROPS	10 l/ha	2 - 5 l/ha	From planting to early flowering
NURSERIES, FLOWERS AND ORNAMENTALS	10 l/ha	1 - 1.5 l/ha	After transplanting and before flowering

SEED TREATMENT: 150 - 200 ml for 100 kg of seeds

Dip seeds, bulbs and cuttings in a 0.2 - 0.4% solution before sowing

\* Foliar applications may refer to standard water volumes



# FITONATURA CALIBER

## FRUIT ENLARGEMENT

**FITONATURA CALIBER** is a product with a biostimulating action, studied to increase and uniform the size of the fruits.

The bioactivator **FITONATURA CALIBER** is able to promote weight gain in the fruit and increase the metabolism of the plant, thanks to the simultaneous presence of vegetal extracts obtained from several plants that enrich the product with aminoacids, vitamins, phytohormones, glucides and peptides with low molecular weight.

**FITONATURA CALIBER** increases and uniforms the size of the fruits without altering the consistency, the shelf-life or the preservability. **FITONATURA CALIBER** increases the colour and °BRIX and advances the harvest.

**FITONATURA CALIBER** has a positive effect on wine and table grapes on the lengthening of the rachis, on the formation of the grape cluster and the reduction of millerandage.

**FITONATURA CALIBER** is compatible with most herbicides and pesticides commonly used in agriculture. If mixed with products calcium nitrate or calcium chloride-based, make a preliminary mixing test. In case of incompatibility, we suggest acidifying the solution.



### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	3% w/w	(3.8% w/v)
Organic Nitrogen (N)	3% w/w	(3.8% w/v)
Total Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> )	4% w/w	(5.1% w/v)
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) sol. in water from orthophosphoric acid	4% w/w	(5.1% w/v)
Potassium oxide (K <sub>2</sub> O) soluble in water	6% w/w	(7.6% w/v)
Organic Carbon (C) from biological origin	12% w/w	(15.2% w/v)

### PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C: 1.27 g/ml

pH (1% w/w aqueous solution at 20°C): 6.5 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 350 µS/cm

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FOLIAR		
FRUIT TREES	-		3-4 treatments starting from fruit set every 10-15 days
Stone fruits	2.5 - 3.5 l/ha		1 <sup>st</sup> application: from stone hardening - 2 <sup>nd</sup> application: 8-10 days after 1 <sup>st</sup> application 3 <sup>rd</sup> application: 8-10 days after 2 <sup>nd</sup> application
Apple and Pear			From 20 mm fruit size (or after thinning), 3-4 applications every 12-15 days
Actinidia	3.5 - 4.5 l/ha		1 <sup>st</sup> application: after fruit set - 2 <sup>nd</sup> application: 15-20 days after 1 <sup>st</sup> application 3 <sup>rd</sup> application: 15-20 days after 2 <sup>nd</sup> application - 4 <sup>th</sup> application: 30 days after 3 <sup>rd</sup> application
Clementine / Tangerine	3.5 - 4.5 l/ha		From 15-20 mm fruit size, 3 applications every 15-18 days
TABLE GRAPES	3.5 - 4.5 l/ha		<b>For fruit enlargement:</b> 1 <sup>st</sup> application: berry size 8-10 mm 2 <sup>nd</sup> application: berry size 15-16 mm - 3 <sup>rd</sup> application: veraison <b>Rachis elongation and millerandage reduction:</b> 1 <sup>st</sup> application: inflorescences clearly visible (or from 6th leave onwards) 2 <sup>nd</sup> application: inflorescences fully developed; flowers separation - 3 <sup>rd</sup> application: flower hoods fall
WINE GRAPES			<b>Rachis elongation and millerandage reduction:</b> 1 <sup>st</sup> application: inflorescences clearly visible (or from 6th leave onwards) - 2 <sup>nd</sup> application: inflorescences fully developed; flowers separation - 3 <sup>rd</sup> application: flower hoods fall
OLIVE TREES	2.5 - 3 l/ha		From stone hardening, 2 applications (also with pesticides)
VEGETABLES	2.5 - 3.5 l/ha		From fruit set, 3-4 applications each 10-15 days
STRAWBERRY AND SMALL FRUITS	3 l/ha		From fruit set, 3-4 applications each 10-15 days



## RIPENING

**FITONATURA COLOR FINISH**, thanks to the ratio between micro and macroelements, has a ripening effect with an intensification of the color, homogeneity of ripening, increase in sugar and soluble solids content. Further, it promotes the formation of aromatic and polyphenolic substances, the shortening of the distance between shoots and wood growth, and rebalances nitrogen excesses.

The product is promptly assimilated both via foliar application and via root application.

**FITONATURA COLOR FINISH** is compatible with most herbicides and pesticides commonly used in agriculture with the exception of products containing calcium and zinc. For sensitive crops, make a preliminary test on a few plants before making extensive applications.

EC FERTILIZER - INORGANIC COMPOUND FLUID FERTILIZER  
PK FERTILIZER SOLUTION 15 - 20 WITH BORON (B),  
MANGANESE (Mn) AND MOLYBDENUM (Mo)

Perfect miscibility  
with agrochemicals

Increase ripening  
and color

Stable P with  
carbonates - bicarbonates in water

### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water	15% w/w	(21% w/v)
Potassium oxide (K <sub>2</sub> O) soluble in water	20% w/w	(28% w/v)
Boron (B) soluble in water	0.1% w/w	(0.14% w/v)
Manganese (Mn) chelated by EDTA soluble in water	0.1% w/w	(0.14% w/v)
Molybdenum (Mo) soluble in water	0.01% w/w	(0.014% w/v)

### PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C: 1,40 g/ml

pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH

Electrical conductivity  
(1 g/l in deionized water at 20°C): 550 µS/cm



CROPS	APPLICATION RATES FOLIAR*	STAGES AND RECOMMENDATIONS
Pome fruits	3 - 5 l/ha	45-30-20 days before harvest, post-harvest
Stone fruits	3 - 5 l/ha	30-20-10 days before harvest, post-harvest
Actinidia	3 - 5 l/ha	40-20 days before harvest
Citrus	3 - 5 l/ha	From pre-veraison until the end of ripening
Wine grapes	3 - 4.5 l/ha	From fruit set until end of veraison and post-harvest. On wine grapes the product can be applied at low volumes (100-200 l of water / ha)
Table grapes	3 - 5 l/ha	
PROCESSING TOMATO	10 l/ha	1 <sup>st</sup> application at 1 <sup>st</sup> cluster veraison - 2 <sup>nd</sup> application after 10-15 days 3 <sup>rd</sup> application after 10-15 days
GREENHOUSE HORTICULTURE	200 - 300 ml/ha	From veraison until ripening
LEAF VEGETABLES	2 l/ha	Until 10 days before harvest (head closing)
BULBS AND TUBERS (potatoes)	4 l/ha	1 <sup>st</sup> application at full blossom - 2 <sup>nd</sup> application after 10 days
STRAWBERRY AND LITTLE FRUITS	300 - 400 ml/ha	From fruit set every 12-15 days
ORNAMENTALS, FLOWERS AND NURSERIES	300 - 400 ml/ha	Early stages of vegetative growth
EXTENSIVE CROPS (sugar beet, oilseed, sunflowers, cereals, etc...)	2 - 5 l/ha	From early flowering according to crop needs

\* Foliar applications referred to standard water volumes

Fertigation: use the product at the concentration of 2 - 3‰ at the rate of 15-20 l/ha treated





# FITONATURA PIANTA-FRUIT

## FRUIT SET

**FITONATURA PIANTA-FRUIT** is a bioregulator of both flowering and setting of plants.

The exclusive phytocomplex in **FITONATURA PIANTA-FRUIT** with low molecular weight promptly penetrates inside the plant, even in absence of vegetation, and stimulates an abundant and homogeneous flowering. Its action increases the vitality of pollen, promotes the quick growth of pollen tubes, and reduces the stress brought by temperature drops and rainfalls during the flowering period.

**FITONATURA PIANTA-FRUIT** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline, cupric, Sulphur-based products and mineral oils. Avoid using with Fosetyl-Al, Triforine and Doline. For sensitive crops, make a preliminary test on a few plants before making extensive applications.

ALLOWED IN ORGANIC FARMING **BIO** ORGANIC FARMING

ORGANIC FERTILIZER BASED ON SEaweEDS EXTRACTS

Low molecular weight

Promotes Fruit Set

**COMPOSITION % w/w (equivalent to % w/v at 20°C)**

Organic nitrogen (N)	1.8% w/w	(2.1% w/v)
Organic carbon (C)	13.5% w/w	(15.5% w/v)
Organic matter	30% w/w	(34.5% w/v)

**PHYSICAL AND CHEMICAL PROPERTIES**

Density at 20°C: 1.15 g/ml

pH (1% w/w aqueous solution at 20°C): 5.5 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 200 µS/cm

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	1.5 - 2 l/ha	Before flowering, during fruit set and at the beginning of ripening
GREENHOUSE HORTICULTURE	2 l/ha	Before flowering and during fruit set
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	1.5 - 2 l/ha	
FLOWERS AND ORNAMENTALS	1.5 - 2 l/h	Before flowering and for stimulating the development of lateral buds

Fertigation: apply the product at the concentration of 2 - 3‰

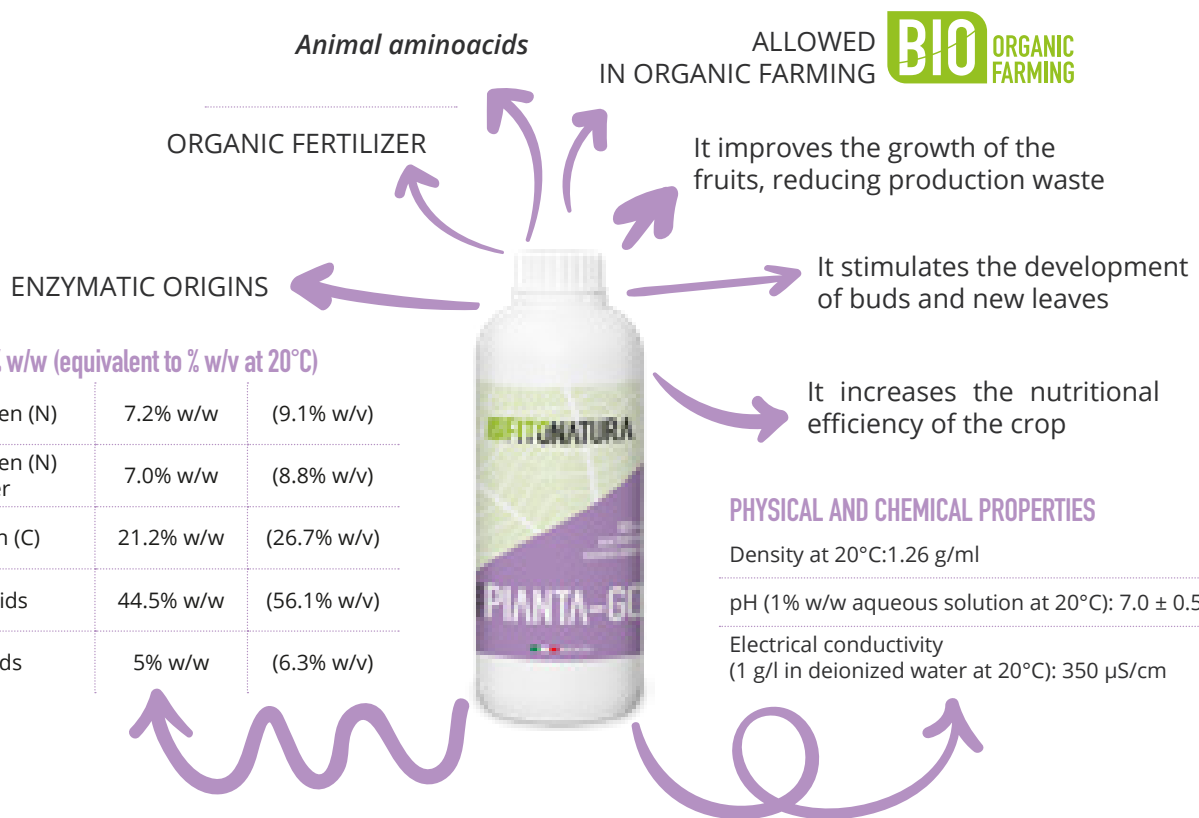
# FITONATURA PIANTA-GO

## VEGETATIVE GROWTH



**FITONATURA PIANTA-GO** is an **animal-derived proteic hydrolyzate of enzymatic origin** which promotes the growth and development of the plant, acting on primary and secondary metabolism. **FITONATURA PIANTA-GO** is composed by amino-acids, proteins and enzymes that provide organic nitrogen that is immediately assimilated and metabolized by the plant, saving the energy used for the biosynthesis of proteins. Its high affinity with the cell membrane promotes the absorption of nutrients and improves the total effect of the foliar products in mixture.

**FITONATURA PIANTA-GO** is compatible with most herbicides and pesticides commonly used in agriculture; if mixed with copper, sulfur and products rich in micronutrient use minimum dose. For sensitive crops, make a preliminary test on a few plants before making extensive applications, in particular with copper salt mixtures or on plants with high copper residues.



### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Organic Nitrogen (N)	7.2% w/w	(9.1% w/v)
Organic Nitrogen (N) soluble in water	7.0% w/w	(8.8% w/v)
Organic Carbon (C)	21.2% w/w	(26.7% w/v)
Total amino-acids	44.5% w/w	(56.1% w/v)
Free amino-acids	5% w/w	(6.3% w/v)

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	25 - 40 l/ha	3 - 5 l/ha	During vegetative growth, from fruit set until beginning of ripening, in case of problematic soils and in stress conditions  Every 7 - 12 days
GREENHOUSE HORTICULTURE	25 - 40 l/ha	2 - 3 l/ha	
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	25 - 40 l/ha	3 - 5 l/ha	
NURSERIES	10 - 12 l/ha	1 - 2 l/ha	
FLOWERS AND ORNAMENTALS	10 - 12 l/ha	1.5 - 2 l/ha	



# FITONATURA WAKE UP

## STOP DORMANCY

**FITONATURA WAKE UP** is a fertilizer containing nitrogen in three different forms (nitric, ureic and ammoniacal), associated with calcium oxides and carefully balanced microelements able to stimulate in some fruit trees (table grapes, actinidia, cherry tree, apricot, plum and walnut) an early and uniform hatching of the buds and the reduction of the number of undeveloped buds, even when the sum of cold hours necessary for the optimal hatching of the buds is not satisfied.

Do not mix **FITONATURA WAKE UP** with other products except **FITONATURA WAKE UP activator**.

EC FERTILIZER  
INORGANIC STRAIGHT FLUID FERTILIZER  
NITROGEN FERTILIZER SOLUTION WITH CALCIUM (Ca), IRON (Fe) AND ZINC (Zn)

Specific for hot climates

**COMPOSITION % w/w (equivalent to % w/v at 20°C)**

Total Nitrogen (N)	15% w/w	(18.6% w/v)
Nitric nitrogen (N)	6% w/w	(7.44% w/v)
Ammoniacal nitrogen (N)	3% w/w	(3.72% w/v)
Ureic nitrogen (N)	6% w/w	(7.44% w/v)
Calcium oxide (CaO) soluble in water	4% w/w	(4.96% w/v)
Iron (Fe) chelated by EDTA soluble in water	0,04% w/w	(0.062% w/v)
Zinc (Zn) chelated by EDTA soluble in water	0,04% w/w	(0.062% w/v)

*Advances and unifies the germination of the buds*

*Anticipates and increases the harvest*

**PHYSICAL AND CHEMICAL PROPERTIES**

Density at 20°C: 1.24 g/ml

pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 550 µS/cm

CROPS	APPLICATION RATES			EXAMPLE OF APPLICATION	APPLICATION AND RECOMMENDATIONS
	WAKE UP	WAKE UP activator	Water volume		
TABLE GRAPE	6 - 8 l/100 l	16 - 20 l/100 l	600 - 800 l/ha	6l Wake Up + 16l Wake Up activator + 78 l water	From 60 to 45 days before budding *, on the aerial part
ACTINIDIA	6 - 8 l/100 l	16 - 20 l/100 l	600 - 800 l/ha	6l Wake Up + 16l Wake Up activator + 78 l water	From 50 to 45 days before budding *, on the aerial part
CHERRY	6 - 8 l/100 l	8 l/100 l	1000 - 1500 l/ha	6l Wake Up + 8l Wake Up activator + 86l water	45 - 40 days before flowering *, on the aerial part
APRICOT	7 - 8 l/100 l	8 l/100 l	600 - 800 l/ha	8l Wake Up + 8l Wake Up activator + 84l water	55 - 40 days before flowering *, on the aerial part
PLUM	7 - 8 l/100 l	8 l/100 l	600 - 800 l/ha	8l Wake Up + 8l Wake Up activator + 84l water	55 - 45 days before flowering *, on the aerial part
WALNUT	2 - 4 l/100 l	4 - 5 l/100 l	1000 - 1500 l/ha	2l Wake Up + 4l Wake Up activator + 94l water	45 - 35 days before budding *, on the aerial part

\* To be managed according to weather and crops conditions

Other uses: Wake Up is also approved:

- in Brazil on apple at 3 l/100 l + Wake Up activator 3 l/100 l (water volume = 1000 l/ha) at the beginning of leaf bud swelling;
- in Chile on almond at 3,5 - 4 l/100 l + Wake Up activator 5 l/100 l (water volume = 800 l/ha) at 7 - 10 days before budding



**FITONATURA PIANTA-MAX** is an anti-stress product.

Its formula of 100% vegetal origin is obtained from enzymatic hydrolysis and contains a high percentage of free L-amino-acids and other organic, biologically-active components. **FITONATURA PIANTA-MAX** prevents and cures abiotic, thermal (low and high temperatures), water and salt stresses. The presence of glycine betaine (4%) helps the regulation of cellular firmness and reduces the formation of ROS (Reactive Oxygen Species), that develop inside cells in stress conditions.

**FITONATURA PIANTA-MAX** is a formula that has been studied to mitigate abiotic stresses during the entire crop cycle. In association with herbicides, it makes the active principle more assimilabile and facilitates the overcoming of stress due to the treatment.

**FITONATURA PIANTA-MAX** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline and mineral oils. For sensitive crops, make a preliminary test on a few plants before making extensive applications, in particular with copper salt mixtures or on plants with high copper residues.

**Vegetables aminoacids**

**BIO ORGANIC FARMING**  
ALLOWED  
IN ORGANIC FARMING

**ORGANIC FERTILIZER**

**COMPOSITION % w/w (equivalent to % w/v at 20°C)**

Organic Nitrogen (N)	5% w/w	(6.25% w/v)
Organic Carbon (C)	16% w/w	(20% w/v)
Total aminoacids	20% w/w	(25% w/v)
Free aminoacids	12% w/w	(15% w/v)
Glycine betaines	4% w/w	(5% w/v)

**Antistress effect in foliar application**

**4% Glicin Betaine**

**PHYSICAL AND CHEMICAL PROPERTIES**

Density at 20°C: 1.25 g/ml

pH (1% w/w aqueous solution at 20°C): 6.0 ± 0.5 u. pH

Electrical conductivity  
(1 g/l in deionized water at 20°C): 270 µS/cm

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR	
FRUIT TREES	10 - 20 l/ha	200 - 400 ml/hl	At any crop stage using the lower rate to prevent stress, and the higher rate in presence of clear stress symptoms
GREENHOUSE HORTICULTURE	10 - 20 l/ha	200	
HORTICULTURE IN OPEN FIELD	10 - 20 l/ha	2 - 3,5 l/ha	
EXTENSIVE CROPS	-	2 - 3 l/ha	
NURSERIES, FLOWERS AND ORNAMENTALS	10 - 20 l/ha	200 - 250 ml/hl	



# FITONATURA Piantavit

## ANTISTRESS

**FITONATURA Pianta Vit** promotes the growth of the plant even in case of strong environmental stress. The formula is a protein hydrolysate of vegetal matrices with a 10% content of L-aminoacids and 7% of glycine betaine, an osmoprotectant that maintains cell firmness and balances the plant in case of abiotic stresses (high temperatures, water deficiencies, soil salinity, etc.). **FITONATURA Pianta Vit** is a versatile formula. Foliar applications reduce abiotic stresses (heat, water deficiency etc.); in a mixture with herbicides, they promote the recovery of the crop. On the other hand, if applied on the soil, **FITONATURA Pianta Vit** positively affects the activity of microorganisms in the soil, improving its fertility, thanks to the organic matter content. Further, **FITONATURA Pianta Vit** meets both the nitrogen and the potassium demands of the crops.

**FITONATURA Pianta Vit** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline and mineral oils. For sensitive crops, make a preliminary test on a few plants before making extensive applications and avoid (especially during temperature changes) mixtures with copper salts or applications on plants with high copper residues.

**Vegetables aminoacids**

**ORGANIC FERTILIZER**

**Antistress effect in fertigation**

**7% Glicin Betaine**

COMPOSITION % w/w (equivalent to % w/v at 20°C)		
Organic Nitrogen (N)	2% w/w	(2.6% w/v)
Potassium oxide (K <sub>2</sub> O) soluble in water	6% w/w	(7.8 w/v)
Organic Carbon (C)	15% w/w	(19.5% w/v)
Organic matter	33% w/w	(42.9 w/v)
Total aminoacids	10% w/w	(13% w/v)

**PHYSICAL AND CHEMICAL PROPERTIES**

Density at 20°C: 1.3 g/ml

pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 400 µS/cm

CROPS	APPLICATION RATES FERTIGATION	STAGES AND RECOMMENDATIONS
FRUIT TREES, GRAPES, CITRUS, OLIVE TREE AND TROPICAL FRUITS	10 - 20 l/ha	2 - 5 applications from the beginning of vegetative growth until ripening. For best result in fertigation, apply at least 50 - 60 l/ha per season
GREENHOUSE HORTICULTURE	2 - 3 l/1000 m <sup>2</sup>	2 - 5 applications during crop cycle
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	10 - 20 l/ha	
SUGAR CANE	4 l/ha (furrow application)	In association with plant protection products as well
NURSERIES, FLOWERS AND ORNAMENTALS	1.5 - 2 l/1000 m <sup>2</sup>	Transplantation or after pruning, to repeat every 15 - 20 day





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## PREMIUM

Products with an exclusively mineral formulation, carefully studied to carry out a specific action during each phenological phase.

Powder products include a specific formula, guaranteeing high deliquescence, especially important in vegetal nutrition.

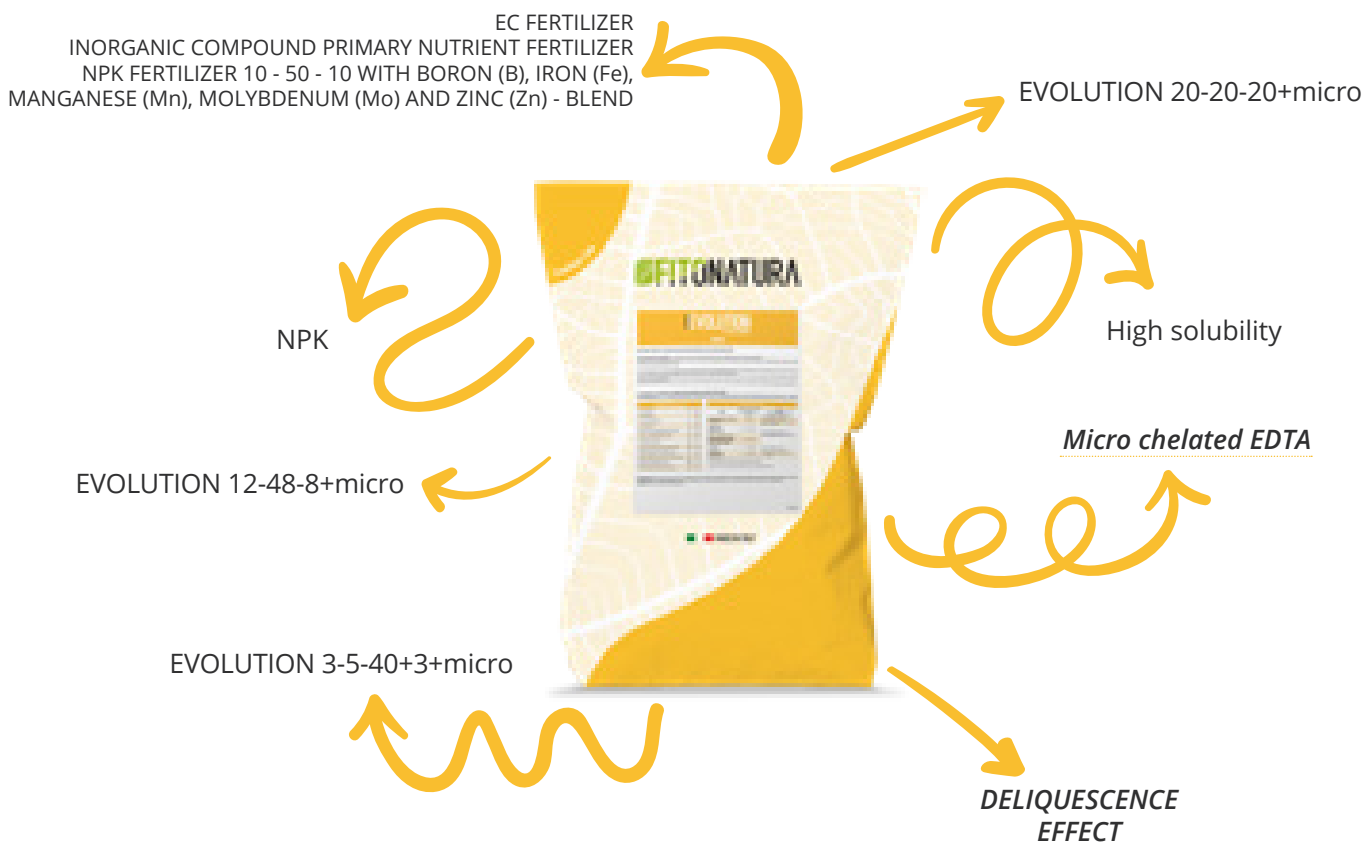
# FITONATURA EVOLUTION LINE

As the name suggests, **EVOLUTION** is an advanced line of water-soluble products in microcrystalline form, exclusively intended for foliar applications, through which the high deliquescence of the product is utilized. When a traditional water-soluble fertilizer is applied, due to the evaporation of the water, a non-soluble saline layer, which is therefore not available to the plant, forms on the leaves. Thanks to the technology of the Evolution line, the saline layer has the chance to return soluble, and therefore available to the plant, simply with the relative humidity of the morning air.

**EVOLUTION** has a solubility that can exceed 500g/l, and can thus be considered a reference point in the watersoluble product sector. In order to guarantee the maximum quality of the product, the different formulations are enriched with chelated microelements.

**EVOLUTION LINE** is compatible with most herbicides and pesticides commonly used in agriculture, (**EVOLUTION 3-5-40+3** and **EVOLUTION 12-48-8** with the exception of alkaline and mineral oils - **EVOLUTION 20-20-20** with the exception of alkaline, mineral oils and products containing calcium and zinc).

For sensitive crops, make a preliminary test on a few plants before making extensive applications.







## NPK FOR FOLIAR APPLICATION WITH DELIQUESCENCE EFFECT FOR THE MAXIMUM EFFICIENCY OF THE ELEMENTS

### COMPOSITION % w/w

Evolution	N-tot %	N-nit %	N-amm %	N-ur %	P <sub>2</sub> O <sub>5</sub> sol in H <sub>2</sub> O%	K <sub>2</sub> O sol in H <sub>2</sub> O%	MgO sol in H <sub>2</sub> O%	B sol in H <sub>2</sub> O%	Cu (EDTA) sol in H <sub>2</sub> O%	Fe (EDTA) sol in H <sub>2</sub> O%	Mn (EDTA) sol in H <sub>2</sub> O%	Mo sol in H <sub>2</sub> O%	Zn (EDTA) sol in H <sub>2</sub> O%
20-20-20+micro	20	6.0	5.1	8.9	20	20	-	0.02	0.05	0.1	0.05	0.001	0.05
12-48-8+micro	12	2	10	-	48	8	-	0.05	-	0.1	0.05	0.001	0.01
3-5-40+3+micro	3	3	-	-	5	40	3	0.05	-	0.1	0.05	0.001	0.01

### PHYSICAL AND CHEMICAL PROPERTIES

Evolution	Water solubility at 20°C (g/l)	pH (1% w/w aqu. sol.)	Electrical conductivity 1 g/l aqu. sol. (µS/cm)
20-20-20+micro	520	6.5 ± 0.5	900
12-48-8+micro	435	6.0 ± 0.5	1100
3-5-40+3+micro	410	4.5 ± 0.5	1250

### APPLICATION RATES

CROPS	FOLIAR	STAGES AND RECOMMENDATIONS
FRUIT TREES, GRAPE, CITRUS, OLIVE TREES	3 - 5 kg/ha	Apply each formula according to crop stage and needs
GREENHOUSE HORTICULTURE	150 - 250 g/hl	
HORTICULTURE IN OPEN FIELD, INDUSTRIAL CROPS AND EXTENSIVE CROPS	2.5 - 4.5 kg/ha	
NURSERIES	1 - 1.5 kg/ha	
FLOWERS AND ORNAMENTALS	1.5 - 2.5 kg/ha	

\* Foliar applications referred to standard water volumes



## THE ULTIMATE CALCIUM


**ROYAL CALBI** is a special water-soluble calcium and boron fertilizer complexed with selected short carboxylic acids. The exclusive formulation, the high quality of the raw materials and the perfect ratio between calcium and boron make **ROYAL CALBI** an exceptional product to solve any calcium deficiency and to avoid the onset of consequent physio-pathologies such as bitter pit, blossom end rot and fruit cracking.

**ROYAL CALBI**, thanks to the presence of micro carboxylic acids, is easily assimilated and translocated through the plant until it reaches the developing fruit. It does not contain nitrogen, chlorides or sulphates, because **ROYAL CALBI** is calcium nutrition: pure, effective and definitive.

**ROYAL CALBI** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline, mineral oils and products containing phosphorus or sulfur. For sensitive crops, make a preliminary test on a few plants before making extensive applications.

**MINERAL FERTILIZER BASED  
ON CALCIUM (Ca)  
AND BORON (B)**

*Calcium complexed  
with carboxylic acid*



*Balanced with Boron*

**PHYSICAL AND CHEMICAL PROPERTIES**

Density at 20°C: 350 g/l

pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH

Electrical conductivity  
(1 g/l in deionized water at 20°C): 925 µS/cm

**COMPOSITION % w/w (equivalent to % w/v at 20°C)**

Calcium oxide (CaO) complexed by carboxylic acids soluble in water	30% w/w
Boron (B) soluble in water	1% w/w

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREE, TROPICAL FRUITS	-	3 - 5 kg/ha	From early fruit set every 15 days. The dosage of 5 kg/ha grants higher weight and better consistency to the fruit and improve shelf life.
STRAWBERRY AND SMALL FRUITS (BERRIES)	-	2 - 3 kg/ha	From early fruit set every 15 days
HORTICULTURE	5 - 10 kg/ha	3 - 5 kg/ha (open field)	From early fruit set
FLOWERS, ORNAMENTALS AND NURSERIES	2 - 3 kg/ha	250 g/hl (greenhouse)	Every 15 - 20 days and in stress conditions
SOILLESS CROPS	Use the product for the preparation of the stock solution in order to increase calcium concentration and dilute in irrigation water		

\* Foliar applications referred to standard water volumes



# FITONATURA ROYAL CALFEED

THE ACID WS FERTILIZER WITH CALCIUM

**ROYAL CALFEED** is a water-soluble NPK fertilizer with calcium and trace elements.

In addition to its complete nutritional intake, the product is distinguished by a clearly acid pH. This feature maximizes the solubility and availability of the contained fertilizing elements and also acts on the soil by demobilizing the mineral elements present in an unavailable form. The high calcium content of **ROYAL CALFEED**, very relevant in an acid fertilizer, contributes to the prevention of deficiencies or even physio-pathologies due to lack of calcium. The particular formula makes the product suitable for fertigation, because it helps to keep the fertigation system clean by removing any carbonate deposits. The product can be used during the entire vegetative cycle.

**ROYAL CALFEED** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline and mineral oils. For sensitive crops, make a preliminary test on a few plants before making extensive applications.

EC FERTILIZER - INORGANIC COMPOUND PRIMARY NUTRIENT FERTILIZER  
NPK (Ca) FERTILIZER 14 - 11 - 22 (8) WITH BORON (B), IRON (Fe), MANGANESE (Mn),  
MOLYBDENUM (Mo) AND ZINC (Zn) - BLEND

## COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	14% w/w
Nitric Nitrogen (N)	10% w/w
Ureic Nitrogen (N)	4% w/w
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water	11% w/w
Potassium oxide (K <sub>2</sub> O) soluble in water	22% w/w
Calcium oxide (CaO) soluble in water	8% w/w
Boron (B) soluble in water	0.01% w/w
Iron (Fe) chelated by EDTA soluble in water	0.02% w/w
Manganese (Mn) chelated by EDTA soluble in water	0.01% w/w
Molybdenum (Mo) soluble in water	0.001% w/w
Zinc (Zn) chelated by EDTA soluble in water	0.002% w/w



Micro in chelated form  
(EDTA)

NPK with Calcium

## PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C: 420 g/l

pH (1% w/w aqueous solution at 20°C): 3.0 ± 0.5 u. pH

Electrical conductivity  
(1 g/l in deionized water at 20°C): 1400 µS/cm

Acid pH

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREE, TROPICAL FRUITS	-	3 - 5 kg/ha	From early fruit set every 15 days. The dosage of 5 kg/ha grants higher weight and better consistency to the fruit and improve shelf life.
STRAWBERRY AND SMALL FRUITS (BERRIES)	-	2 - 3 kg/ha	From early fruit set every 15 days
HORTICULTURE	5 - 10 kg/ha	3 - 5 kg/ha (open field)	From early fruit set
FLOWERS, ORNAMENTALS AND NURSERIES	2 - 3 kg/ha	250 g/hl (greenhouse)	Every 15 - 20 days and in stress conditions
SOILLESS CROPS	Use the product for the preparation of the stock solution in order to increase calcium concentration and dilute in irrigation water		

\* Foliar applications referred to standard water volumes



## THE ACTIVATED CALCIUM

**ROYAL EVOCAL** is a liquid fertilizer containing calcium activated by a special natural complex. The action of the activator complex improves the assimilation of calcium at the root level and promotes its translocation in an acropetal way and from leaves to fruits. The natural precursors present in the complex induce the emission of new root hairs. An efficient and fully developing root system is able to explore a larger portion of the soil in search of nutrients. Moreover, the improved ability of absorption and translocation of water and nutrients in the solution that is circulating in the ground considerably reduces abiotic stresses related to high temperatures and water deficiencies. The accumulation of calcium at the fruit level prevents the onset of physio-pathologies due to lack of calcium, such as apple bitter pit, apical rottenness of the tomato and bell pepper (blossom end rot), tip burn in lettuce and rachis desiccation in wine grapes.

**ROYAL EVOCAL** is compatible with most herbicides and pesticides commonly used in agriculture with the exception of products containing sulfur and phosphorus. For sensitive crops, make a preliminary test on a few plants before making extensive applications.



CROPS	APPLICATION RATES FERTIGATION	STAGES AND RECOMMENDATIONS
FRUITS TREES AND GRAPES	20 l/ha	During fruit set and fruit enlargement (2 - 3 applications throughout crop cycle)
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	10 - 20 l/ha	After the first blossom (3 - 4 applications throughout crop cycle)

Use the product at the concentration of 0,2 - 0,3%



# FITONATURA ROYAL SYNERGY

INCREASING WITH QUALITY

**ROYAL SYNERGY** is a perfectly balanced liquid fertilizer containing calcium, magnesium and nitrogen.

The high purity of the raw materials and the absolute stability of the formulation make it suitable for foliar use and in fertigation. With **ROYAL SYNERGY**, magnesium and calcium deficiencies are prevented and, thanks to the vegetative boost, the crop can complete its development cycle in the best way.

The colour and resistance of the fruit have improved and there is a marked action on recovery from water imbalance.

The formulation is miscible with the most common agrochemicals.

**ROYAL SYNERGY** is compatible with most herbicides and pesticides commonly used in agriculture; if used at high dosage, do not mix with products containing phosphorus. For sensitive crops, make a preliminary test on a few plants before making extensive applications.

EC FERTILIZER  
INORGANIC STRAIGHT FLUID FERTILIZER  
CALCIUM NITRATE SOLUTION N (Ca - Mg) 8,8 (10 - 5)

Ratio 2:1 Ca - Mg

*Sinergy between Calcium and Magnesium*

### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	8,8% w/w	(13.2% w/v)
Nitric Nitrogen (N)	8,8% w/w	(13.2% w/v)
Calcium oxide (CaO) soluble in water	10% w/w	(15% w/v)
Magnesium oxide (MgO) soluble in water	5% w/w	(7.5% w/v)

### PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C: 1.5 g/ml

pH (1% w/w aqueous solution at 20°C): 6.0 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 830 µS/cm



### CROPS

### APPLICATION RATES

#### FERTIGATION

#### FOLIAR\*

### STAGES AND RECOMMENDATIONS

FRUIT TREES AND STRAWBERRIE	10 - 20 l/ha	2 - 3 l/ha	After fruit set to guarantee the best nutritional support to fruits
WINE AND TABLE GRAPE	10 - 20 l/ha	2 - 3 l/ha	Before fruit set to contrast rachis desiccation (bunch stem necrosis) and after fruit set
VEGETABLES	5 - 10 l/ha	2 - 3 l/ha	During vegetative growth also to contrast tip burn
Leaf vegetables	5 - 10 l/ha	2 - 2.5 l/ha	During vegetative growth also to contrast tip burn
Tomato, eggplant and pepper	5 - 10 l/ha	2 - 3 l/ha	After fruit set to contrast blossom end-rot
Cucurbits	5 - 10 l/ha	2 - 3 l/ha	During the whole crop cycle to reduce desiccation of leaf stalk, vitrescence, blossom and leaf margin
Fennel and celery	5 - 10 l/ha	2 l/ha	During the whole crop cycle to reduce desiccation and physiological rot
Potatoes	10 - 20 l/ha	2 - 3 l/ha	During vegetative growth and after flowering to contrast internal browning and hollow tubers
FLOWERS AND ORNAMENTALS	5 - 8 l/ha	1 - 1.5 l/ha	To strengthen stems, to increase the leaves and the coloring

\* Foliar applications referred to standard water volumes





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# MACROELEMENTS

Fertilizers characterised by a predominance of highly-available macroelements such as nitrogen, phosphorus and potassium, to provide mineral elements according to specific needs.



## PROMOTES A PROMPT VEGETATIVE RESPONSE

**NITRO PIANTA PLUS** is a nitrogen fertilizer for the growth and development of the plants.

In **NITRO PIANTA PLUS** the nitrogen is balanced in its **three forms (nitric, ureic and ammoniacal)**, in order to maximise its efficiency in both the short and long term.

The addition of a complex of chelated microelements prevents possible micro-deficiencies.

In association with herbicides, it makes the active principle more assimilabile and facilitates the overcoming of stress due to the treatment.

**NITRO PIANTA PLUS** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline and mineral oils.

For sensitive crops, make a preliminary test on a few plants before making extensive applications.

EC FERTILIZER  
INORGANIC STRAIGHT FLUID FERTILIZER  
UREA AMMONIUM NITRATE FERTILIZER SOLUTION WITH BORON (B), COPPER (Cu),  
MANGANESE (Mn), MOLYBDENUM (Mo) AND ZINC (Zn)

### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	32% w/w	(41.6% w/v)
Nitric nitrogen (N)	8% w/w	(10.4% w/v)
Ammoniacal nitrogen (N)	8% w/w	(10.4% w/v)
Ureic nitrogen (N)	16% w/w	(20.8% w/v)
Boron (B) soluble in water	0.05% w/w	(0.065% w/v)
Copper (Cu) chelated by EDTA soluble in water	0.01% w/w	(0.013% w/v)
Manganese (Mn) chelated by EDTA soluble in water	0.1% w/w	(0.13% w/v)
Molybdenum (Mo) soluble in water	0.001% w/w	(0.0013% w/v)
Zinc (Zn) chelated by EDTA soluble in water	0.01% w/w	(0.013% w/v)



3 forms of nitrogen

High absorption efficiency of nitrogen

### PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C: 1.30 g/ml

pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 850 µS/cm

Microelements chelated (EDTA)

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	20 - 40 l/ha	2 - 4 l/ha	Vegetative restart, fruit enlargement
GREENHOUSE HORTICULTURE	20 - 40 l/ha	200 ml/ha	Vegetative growth
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	20 - 40 l/ha	2 - 3 l/ha	
NURSERIES	4 - 10 l/ha	1 - 2 l/ha	
FLOWERS AND ORNAMENTALS	12 - 20 l/ha	1 - 2 l/ha	
CEREALS	-	6 - 10 l/ha	Post-emergence; the product helps the activation of herbicides and plant protection products

\* Foliar applications referred to standard water volumes





# FITONATURA NITRO SLOWREL

## SLOW-RELEASE NITROGEN

**NITRO SLOWREL** is a liquid fertilizer which provides the plant with nitrogen, based on the real crop needs during the entire vegetative cycle. The nitrogen in **NITRO SLOWREL** is condensed in slow-release polymers stored inside the cell.

Thanks to this feature, **NITRO SLOWREL** is ideal for several specific uses:

- it increases the protein content in industrial crops
- if applied in the soil, it does not leach and the efficiency of the nitrogen applications is increased.
- it increases the reserve substances in fruit crops, especially in post-harvest.

At the same time, the formula decreases the phenomenon of lodging, excessive bedding and imbalance in the vegetative development. **NITRO SLOWREL** can be used for foliar applications on all crops to stimulate their growth and quality, or to correct possible nitrogen deficiencies.

**NITRO SLOWREL** is compatible with most herbicides and pesticides commonly used in agriculture; do not mix with ammonium nitrate. For sensitive crops, make a preliminary test on a few plants before making extensive applications.

EC FERTILIZER -  
INORGANIC STRAIGHT FLUID FERTILIZER  
NITROGEN FERTILIZER SOLUTION WITH UREA  
FORMALDEHYDE WITH BORON (B) AND ZINC (Zn)

*Nitrogen in slow-release form*

*Long term effect  
of nitrogen*

### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	26% w/w	(32.2% w/v)
Ureic Nitrogen (N)	7.5% w/w	(9.3% w/v)
Nitrogen (N) from urea formaldehyde	18.5% w/w	(22.9% w/v)
Boron (B) soluble in water	0.5% w/w	(0.62% w/v)
Zinc (Zn) chelated by EDTA soluble in water	0.05% w/w	(0.62% w/v)

### PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C: 1.24 g/ml  
pH (1% w/w aqueous solution at 20°C): 8.5 ± 0.5 u. pH  
Electrical conductivity (1 g/l in deionized water at 20°C): 20 µS/cm

*Low EC value*



CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	10 - 20 l/ha	4 - 6 l/ha	After harvest to increase plant reserves; at the beginning of vegetative growth or before flowering
HORTICULTURE	10 - 20 l/ha	2 - 3 l/ha	During vegetative growth
INDUSTRIAL CROPS	-	5 - 10 l/ha	During vegetative growth (possible association with herbicides)
ARABLE CROPS	-	5 - 10 l/ha	During tillering stage and/or flag leaf collar formation
FODDER CROPS	-	10 - 20 l/ha	At the beginning of vegetative growth (end of winter)
FLOWERS AND ORNAMENTALS	10 l/ha	1.5 - 2 l/ha	At the beginning of vegetative growth

\* Foliar applications referred to standard water volumes

# FITONATURA RUNNER LINE

**RUNNER** is a line of versatile water-soluble products, characterised by a formula and ratio of nitrogen, phosphorus and potassium, carefully calculated to meet every agronomic need, ranging from the post-transplant phase to ripening.

The water-soluble products in the Runner line are characterised by highly-soluble microcrystalline formulas and by high purity, which increases their efficacy.

**RUNNER LINE** is compatible with most herbicides and pesticides commonly used in agriculture, (**RUNNER 8-7-40+micro**, **RUNNER 12-9-34+micro** and **RUNNER 20-5-10+micro** with the exception of alkaline and mineral oils - **RUNNER 20-20-20+micro** with the exception of products containing calcium and zinc and **RUNNER 10-50-10+micro** with the exception of alkaline, mineral oils and products containing calcium and zinc).  
For sensitive crops, make a preliminary test on a few plants before making extensive applications.

EC FERTILIZER  
INORGANIC COMPOUND PRIMARY NUTRIENT FERTILIZER  
NPK FERTILIZER 20 - 20 - 20 WITH BORON (B), IRON (Fe),  
MANGANESE (Mn), MOLYBDENUM (Mo) AND ZINC (Zn) - BLEND





## NPK WITH MICROELEMENTS FOR A WIDE RANGE OF APPLICATIONS

### COMPOSITION % w/w

RUNNER	N-tot %	N-nit %	N-amm %	N-ur %	P <sub>2</sub> O <sub>5</sub> sol in H <sub>2</sub> O %	K <sub>2</sub> O sol in H <sub>2</sub> O %	MgO sol in H <sub>2</sub> O %
8-7-40+2+micro	8	7	1	-	7	40	2
10-50-10+micro	10	1.2	8.8	-	50	10	-
12-9-34+2+micro	12	10	2	-	9	34	2
20-5-10-+2+micro	20	7	13	-	5	10	2
20-20-20+micro	20	4.4	3	12.6	20	20	-

Microelements in "Runner Line": B 0.01 - Fe EDTA 0.02 - Mn 0.01 - Mo 0.001 - Zn 0.002

### PHYSICAL AND CHEMICAL PROPERTIES

RUNNER	Water solubility at 20°C (g/l)	pH (1% w/w aqu. sol.)	Electrical conductivity 1 g/l aqu. sol. (µS/cm)
8-7-40+2+micro	395	6.0 ± 0.5	1300
10-50-10+micro	390	5.5 ± 0.5	950
12-9-34+2+micro	395	6.0 ± 0.5	1300
20-5-10-+2+micro	375	6.0 ± 0.5	1600
20-20-20+micro	360	6.0 ± 0.5	840

### APPLICATION RATES

CROPS	FERTIGATION	STAGES AND RECOMMENDATIONS
FRUIT TREES, GRAPE, CITRUS, OLIVE TREES	10 - 30 kg/ha	During vegetative growth and from fruit set until ripening
GREENHOUSE HORTICULTURE	2 - 6 kg/1000 m <sup>2</sup>	
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	10 - 40 kg/ha	
NURSERIES	10 - 20 kg/ha	Every 7 - 12 days
FLOWERS AND ORNAMENTALS	15 - 20 kg/ha	

\* Foliar applications referred to standard water volumes





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# MESOELEMENTS

Calcium and Sulphur are the most important mesoelements in vegetal nutrition; for this reason Fitonatura offers a wide range of products, both in liquid and powder form, to meet the needs of the farmers.

# FITONATURA CALGO

## BALANCED CALCIUM AND NITROGEN



**CALGO** is the liquid fertilizer that simultaneously brings calcium and nitrogen to the crop.

Calcium deficiencies are resolved and the vegetative development of the plant is promoted at the same time. Moreover, the liquid formulation and the elements in perfect solution make the product ideal for use in fertigation, in soilless crops and foliar application.

**CALGO** is compatible with most herbicides and pesticides commonly used in agriculture with the exception of products containing phosphorus and sulfur. For sensitive crops, make a preliminary test on a few plants before making extensive applications.

EC FERTILIZER  
INORGANIC STRAIGHT FLUID FERTILIZER  
CALCIUM NITRATE SOLUTION N (Ca) 8.5 (15)

*Nitrogen with fast effect*

*Calcium to prevent deficiencies and increase hardness of fruits*

*Promotes absorption of calcium thanks the synergy effect of nitric nitrogen*



### PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C: 1.40 g/ml

pH (1% w/w aqueous solution at 20°C): 6.0 ± 0.5 u. pH

Electrical conductivity  
(1 g/l in deionized water at 20°C): 690 µS/cm

### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	8.5% w/w	(11.9% w/v)
Nitric Nitrogen (N)	8.5% w/w	(11.9% w/v)
Calcium oxide (CaO) soluble in water	15% w/w	(21% w/v)

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	15 - 30 l/ha	2 - 4 l/ha	Vegetative growth; fruit enlargement
GREENHOUSE HORTICULTURE	15 - 30 l/ha	1.5 - 2.5 l/ha	
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	15 - 30 l/ha	2 - 4 l/ha	
NURSERIES	10 l/ha	1.5 - 2.5 l/ha	After transplanting and before flowering
FLOWERS AND ORNAMENTALS	10 - 15 l/ha	1.5 - 2.5 l/ha	

\* Foliar applications referred to standard water volumes



# FITONATURA ESSELIFE

THE BEST CHOICE TO SUPPLY SULPHUR TO THE CROPS

**ESSELIFE** is a formulation that provides N, K, S and microelements in a readily-assimilable form.

The presence of **sulphur as thiosulphate** contributes to the intake of fundamental elements for metabolic processes such as the synthesis of sulfur aminoacids, which are responsible for the formation of aromatic compounds, such as isothiocyanates. In oil crops it increases the yield in oil, while in cereals it increases the flour strength index (W).

**ESSELIFE** is compatible with herbicides and pesticides commonly used in agriculture, with the exception of alkaline and mineral oils. Do not mix with acid solutions (pH < 6,1). For sensitive crops, make a preliminary test on a few plants before making extensive applications.

EEC FERTILIZER  
INORGANIC COMPOUND FLUID FERTILIZER  
NK (S) FERTILIZER SOLUTION 11 - 5 (57) WITH  
BORON (B), IRON (Fe) AND ZINC (Zn)

Optimize the content  
of sulphate aminoacid

Increases the quality  
in the crops production

### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	11% w/w	(14.85% w/v)
Ammoniacal Nitrogen (N)	9% w/w	(12.15% w/v)
Ureic Nitrogen (N)	2% w/w	(2.7% w/v)
Potassium oxide (K <sub>2</sub> O) soluble in water	5% w/w	(6.75% w/v)
Sulfur trioxide (SO <sub>3</sub> ) soluble in water	57% w/w	(76.95% w/v)
Boron (B) soluble in water	0.04% w/w	(0.054% w/v)
Iron (Fe) chelated by DTPA soluble in water	0.02% w/w	(0.027% w/v)
Zinc (Zn) chelated by EDTA soluble in water	0.04% w/w	(0.054% w/v)



### PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C: 1.35 g/ml

pH (1% w/w aqueous solution at 20°C): 7.5 ± 0.5 u. pH

Electrical conductivity  
(1 g/l in deionized water at 20°C): 1150 µS/cm

### CROPS

### APPLICATION RATES

#### FOLIAR\*

### STAGES AND RECOMMENDATIONS

VEGETABLES CROPS (bulbous, crucifers, leaf-beets, carrots)	2.5 - 6 l/ha	Post-transplant or from emergence
CEREALS, RAPESEED, GRAIN LEGUMES, FORAGE LEGUMES	2.5 - 6 l/ha	Cereals: from node 2 at least 2 cm above node 1 (BBCH 32) to watery ripe (BBCH 71). Rapeseed and grain legumes at the beginning of flowering.
ORNAMENTALS AND FLORICULTURE	100 - 150 ml/ha	During vegetative growth, in case of chlorosis and high salinity

\* Use the product at the concentration of 3 - 5‰

# FITONATURA ISICAL

## EASY CALCIUM



**ISICAL** is a liquid fertilizer based on calcium chloride. The main characteristics of the product are the high solubility of calcium and the absolute purity of the formulation. It can be applied in all cases of calcium deficiency and has a strong preventive action in physio-pathologies such as apple bitter pit and tomato blossom end-rot. It is also recommend to improve fruit shelf life, firmness and to promote the coloring. The product can be mixed with other active ingredients commonly used in agriculture.

**ISICAL** is compatible with most herbicides and pesticides commonly used in agriculture with the exception of products containing sulfur and phosphorus. For sensitive crops, make a preliminary test on a few plants before making extensive applications.



ALLOWED IN ORGANIC FARMING  
(FOLIAR TREATMENT OF APPLE TREES, AFTER IDENTIFICATION OF DEFICIT OF CALCIUM)

EC FERTILIZER  
INORGANIC SECONDARY NUTRIENT  
FERTILIZER CALCIUM CHLORIDE  
SOLUTION

*Compatible with most  
herbicides and pesticides*



### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Calcium oxide (CaO) soluble in water	16.8% w/w	(22.2% w/v)
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*High solubility  
and biodisponibility of calcium*

### PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C: 1.32 g/ml

pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH

Electrical conductivity  
(1 g/l in deionized water at 20°C): 850 µS/cm

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR*	
APPLES AND PEARS	700 - 1000 g/hl	Starting from 15 days after fruit-set, at least 5 applications
STONE FRUITS, GRAPES, CITRUS, OLIVE TREES	700 - 1000 g/hl	Starting from 15 days after fruit-set, 2 - 4 applications
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	400 - 600 g/hl	Before flowering and before fruit enlargement
TOMATO FOR CANNING	600 - 800 g/hl	Starting from 7 days after 1 <sup>st</sup> cluster fruit set, carry out 4 applications
GREENHOUSE HORTICULTURE NURSERIES	350 - 500 g/hl 250 - 400 g/hl	Before flowering and before fruit enlargement

FERTIGATION: Use the product at a maximum concentration of 0.1 - 0.2%

\* Foliar applications referred to standard water volumes





FITONATURA

# PIANTA CALCIO 40%

THE TOP PERFORMING CALCIUM

**PIANTA CALCIO 40%** is a performing calcium water-soluble fertilizer in a microcrystal form. The calcium contained in the product is **complexed with formate** and it is completely soluble and available for the plant.

It is easily assimilated by the roots and translocated in an acropetal sense, in the same way the product applied at the leaf level manages to penetrate the leaves and accumulate at fruit level. **PIANTA CALCIO 40%** is the ideal product to combat calcium deficiencies and to control the onset of physiopathies such as apple bitter pit or tomato end rot.

**PIANTA CALCIO 40%** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline and mineral oils. For sensitive crops, make a preliminary test on few plants before making extensive applications.

**EC FERTILIZER  
INORGANIC SECONDARY NUTRIENT FERTILIZER  
CALCIUM FORMATE**

*Fruits shelf life increase*

*Prevents physiological disease related with a calcium deficiency*

*Complexed with formate*

**COMPOSITION % w/w (equivalent to % w/v at 20°C)**

Calcium oxide (CaO)	40% w/w
Formate	64% w/w

**PHYSICAL AND CHEMICAL PROPERTIES**

Density at 20°C: 130 g/l

pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 1350 µS/cm

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES AND GRAPES	4 - 8 kg/ha	250 - 350 g/hl	From fruit set every 15 days and in stress conditions
HORTICULTURE	0.5 - 1 kg/1000 m <sup>2</sup>	2 - 3 kg/ha	Starting from fruit set every 15 days
FLOWERS AND ORNAMENTALS	0.5 - 1 kg/1000 m <sup>2</sup>	150 - 200 g/hl	Every 15 - 20 days and in stress conditions
SOILLESS CROPS	Use the product for the preparation of the stock solution in order to increase calcium concentration and dilute in irrigation water		

\* Foliar applications referred to standard water volumes





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# MICROELEMENTS

The line is characterised by highly-assimilable and bioavailable products for the plants, which prevent and cure microelements deficiencies, through foliar applications and fertigation.

# FITONATURA PIANTA BOR



HIGH BIOAVAILABILITY OF BORON

**PIANTA BOR** is a source of boron in readily available ethanolamine. It is fundamental to improve production yield and to help the crop during specific phases of development.

**PIANTA BOR** increases the fertility of the pollen, promotes optimal flowering and a higher setting of the fruits, increasing the production level and improving the crop growth.

**PIANTA BOR** is essential in case of alkaline, calcareous or dry soils, to prevent and cure certain physio-pathologies such as millerandage in grapes, heart rot in sugar beets, reduction of bunch in olive trees, deformation of the spike in cereals and the scarce setting in horticultural crops.

**PIANTA BOR** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline and mineral oils. For sensitive crops, make a preliminary test on a few plants before making extensive applications.



CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	1,5 l/ha	2 - 5 l/ha	Before flowering, during fruit set and after harvest
GREENHOUSE HORTICULTURE	100 ml/hl	2 - 4 l/ha	Before flowering, during ripening and in case of boron deficiency
HORTICULTURE IN OPEN FIELD, CEREALS AND INDUSTRIAL CROPS	1 - 1.5 l/ha	2 - 5 l/ha	
FLOWERS AND ORNAMENTALS	50 ml/hl	1 - 2 l/ha	Before flowering and in case of boron deficiency

\* Foliar applications referred to standard water volumes



# FITONATURA PIANTA MIX

A BALANCED COMPLEX OF CHELATED MICROELEMENTS AND MAGNESIUM

**PIANTA MIX** is a mix of oligoelements and magnesium, which improves the metabolic efficiency of the plant.

**PIANTA MIX** has been studied to prevent and cure nutritional deficiencies such as foliar chlorosis, dryness of the apex, nanism, scarce setting, poor fruit size, stunted growth, etc., which are most of the times caused by a (hard to diagnose) co-deficiency of one or more nutritional elements.


**PIANTA MIX** is characterised by total solubility and by an immediate positive response of the crop, which will increase biological activities, stimulating development and quality of the production. The ratio between the oligoelements and magnesium in **PIANTA MIX** has been chosen evaluating horticultural and fruit crops, and cultivated oilseed protein crops, always ensuring prompt and valid efficacy.

**PIANTA MIX** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline and mineral oils. For sensitive crops, make a preliminary test on a few plants before making extensive applications. In fruit trees do not use during flowering.

Reduction of the sensitivity of the plants to illnesses and climatic and environmental adversities

*Quick reactivation of photosynthesis*

FERTILIZER BASED ON MICRONUTRIENTS  
SOLID MIX OF EDTA-CHELATED  
MICRONUTRIENTS WITH MAGNESIUM (Mg)



*Increase of the consistency and color of the fruits*

COMPOSITION % w/w (equivalent to % w/v at 20°C)	
Magnesium oxide (MgO) soluble in water	9% w/w
Boron (B) soluble in water	0,5% w/w
Copper (Cu) chelated by EDTA soluble in water	1% w/w
Iron (Fe) chelated by EDTA soluble in water	4% w/w
Manganese (Mn) chelated by EDTA soluble in water	4% w/w
Molybdenum (Mo) soluble in water	0.1% w/w
Zinc (Zn) chelated by EDTA soluble in water	2% w/w

PHYSICAL AND CHEMICAL PROPERTIES
Density at 20°C: 250 g/l
pH (1% w/w aqueous solution at 20°C): 3.5 ± 0.5 u. pH
Electrical conductivity (1 g/l in deionized water at 20°C): 850 µS/cm

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	1 - 2 kg/ha	3 - 5 kg/ha	At the beginning of vegetative growth, in case of deficiency and after harvest
GREENHOUSE HORTICULTURE	100 g/hl	3 - 5 kg/ha	At the beginning of vegetative growth and in case of deficiency
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	1 - 2 kg/ha	3 - 5 kg/ha	At the beginning of vegetative growth and in case of deficiency

\* Foliar application referred to standard water volumes

# FITONATURA PIANTA ZINC



## HIGH BIOAVAILABILITY OF ZINC

**PIANTA ZINC** is a liquid product with a base of zinc complexed with LS (lignosulfonic acid). LSs are derived from lignin and have important biological characteristics: they have a high affinity with vegetal tissues, they easily penetrate inside the plant and they transport zinc inside the cell. Once reached the vegetal cell, the complex metal-LS separates naturally without energy use and the lignosulfonic acids are used by the plant for the synthesis of energy compounds such as ATP, NADH and FAH2.

**PIANTA ZINC**, thanks to its affinity with vegetals, is highly miscible with agrochemical products and other fertilizers, slightly improving the adheiveness of the sprayed solution.

**PIANTA ZINC** is compatible with most pesticides commonly used in agriculture with the exception of products containing phosphorus. In fertigation, do not mix **PIANTA ZINC** in the mother solution with fertilizers containing calcium. For sensitive crops, make a preliminary test on a few plants before making extensive applications.



### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Zinc (Zn) soluble in water	10% w/w	(13.5% w/v)
Total Zinc (Zn) complexed by lignosulfonic acid	10% w/w	(13.5% w/v)

CROPS	APPLICATION RATES FOLIAR*	STAGES AND RECOMMENDATIONS
FRUIT TREES, GRAPES, CITRUS, OLIVE	1 - 2 l/ha	At the vegetative re-start, before flowering and after harvest During vegetative growth and fruit enlargement
HORTICULTURE	1 - 1,2 l/ha	At the beginning and during vegetative growth
CEREALS AND INDUSTRIAL CROPS	1 - 2 l/ha	At the 4th leaf and after tillering.
NURSERIES	0.4 - 0.8 l/ha	By the 4th leaf
FLOWERS AND ORNAMENTALS	1 - 1.2 l/ha	At the beginning and during vegetative growth

\* Foliar applications referred to standard water volumes









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## WATER & SOIL CONDITIONER

The line of water and soil conditioners of Fitonatura is characterised by fertilizers that aim to act on the pH of the soil and of water, thanks to a carefully studied formula.

# pH FIX

pH REGULATOR WITH ANTI-FOAM ACTION

**pH FIX** is a liquid fertilizer specially designed to improve the efficacy of the solutions normally used in foliar treatments

**pH FIX** acidifies the water used to prepare the mixtures applied onto leaves and it improves the solubilization and homogenization of the used formulations increasing their functionality.

Thanks to its special formulation, **pH FIX** has a high anti-foam effect allowing an easier application of agrochemicals that usually present this problem: in fact, the product decreases the formation of foam that can occur in atomizers after mixing and shaking different products together.

**pH FIX** can also cleanse fertirrigation systems in order to avoid the obstruction of the nozzles or the formation of calcareous concretions in the hoses; moreover, its acidifying action prevents alkaline hydrolysis.

**pH FIX** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline and mineral oils; in case of unknown compatibility of certain products, test the mixture in advance. For sensitive crops, make a preliminary test on few plants before making extensive applications.

EC FERTILIZER  
INORGANIC COMPOUND FLUID FERTILIZER  
NP FERTILIZER SOLUTION 3 - 18

Color change depending on pH

Increases the functionality of agrochemicals

*Anti foam effect*

**COMPOSITION % w/w (equivalent to % w/v at 20°C)**

Total Nitrogen (N)	3% w/w	(3.45% w/v)
Ureic Nitrogen (N)	3% w/w	(3.45% w/v)
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water	18% w/w	(20.7% w/v)

**PHYSICAL AND CHEMICAL PROPERTIES**

Density at 20°C: 1.15 g/ml

pH (1% w/w aqueous solution at 20°C): 2.0 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 700 µS/cm

**pH FIX**

Water pH regulator

## APPLICATION RATES:

The doses depend on water hardness and on desired pH level.

Added to water, pH FIX produces a color change that, with the help of the color scale present on the label, allows to visually measuring the final pH of the solution.

Usually, the final doses is between 80 and 100 ml ml/hl for reaching pH = 5.5

The product can be poured directly in the atomizer or other tanks used for the application.

For foliar spraying as fertilizer, we suggest 150 - 200 ml/hl.

# pH FIX+

pH REGULATOR WITH WETTING ACTION

**pH FIX+** is a liquid fertilizer specially designed to improve the efficacy of the solutions normally used in foliar treatments.

**pH FIX+** acidifies the water used to prepare the mixtures applied onto leaves and it improves the solubilization and homogenization of the used formulations, increasing their adhesion and passage into leaves, carrying out at the same time a nourishing and energetic action.

Thanks to its new formulation, **pH FIX+** has both high wetting effect and strong adhesive effect, allowing the nebulized drops to occupy a larger area on the irrigated parts and to better adhere to the leaves.

**pH FIX+** can cleanse fertirrigation systems in order to avoid the obstruction of the nozzles or the formation of calcareous concretions in the hoses; its acidifying action also prevents alkaline hydrolysis.

**pH FIX+** is compatible with most herbicides and pesticides commonly used in agriculture, with the exception of alkaline and mineral oils; in case of unknown compatibility of certain products, test the mixture in advance. For sensitive crops, make a preliminary test on few plants before making extensive applications.

EC FERTILIZER  
INORGANIC COMPOUND FLUID FERTILIZER  
NP FERTILIZER SOLUTION 3 - 18

Increases the functionality of agrochemicals

**WETTING ACTION**

Color change depending on pH

**PHYSICAL AND CHEMICAL PROPERTIES**

Density at 20°C: 1.15 g/ml

pH (1% w/w aqueous solution at 20°C): 2.0 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 700 µS/cm

**COMPOSITION % w/w (equivalent to % w/v at 20°C)**

Total Nitrogen (N)	3% w/w	(3.45% w/v)
Ureic Nitrogen (N)	3% w/w	(3.45% w/v)
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water	18% w/w	(20.7% w/v)

**Water pH regulator**

## APPLICATION RATES:

The doses depend on water hardness and on desired pH level.

Added to water, pH FIX+ produces a color change that, with the help of the color scale present on the label, allows to visually measuring the final pH of the solution.

Usually, the final doses is between 80 and 100 ml ml/hl for reaching pH = 5.5

The product can be poured directly in the atomizer or other tanks used for the application.

For foliar spraying as fertilizer, we suggest 150 - 200 ml/hl.

# FITONATURA IDROSOIL



## ACIDIFYNG EFFECT OF SOIL

**IDROSOIL** is a mineral fertilizer with a high content in sulphur with an acidifying effect.

In the soil **IDROSOIL** has a reducing chemical action able to increase the availability of the nutritional elements that have been made insoluble by limestone or by salts and therefore not assimilable by the plants. **IDROSOIL** decreases nutritional deficiencies and chlorosis and carries out a correctional action in situations in which the salinity leads to the alkalisation of the soil. Aside from its correctional action on the soil, the formula provides also the plant with nitrogen, potassium, ammonium thiosulfate and microelements. When applied repeatedly in the first phases of development of the crop, it improves the efficiency of the fertilizations.

**IDROSOIL** is compatible with herbicides and pesticides commonly used in agriculture, with the exception of alkaline and mineral oils. Do not mix with acid solutions (pH < 6,1). For sensitive crops, make a preliminary test on a few plants before making extensive applications.

EC FERTILIZER  
INORGANIC COMPOUND FLUID FERTILIZER  
NK (S) FERTILIZER SOLUTION 11 - 5 (57)  
WITH BORON (B), IRON (Fe) AND ZINC (Zn)

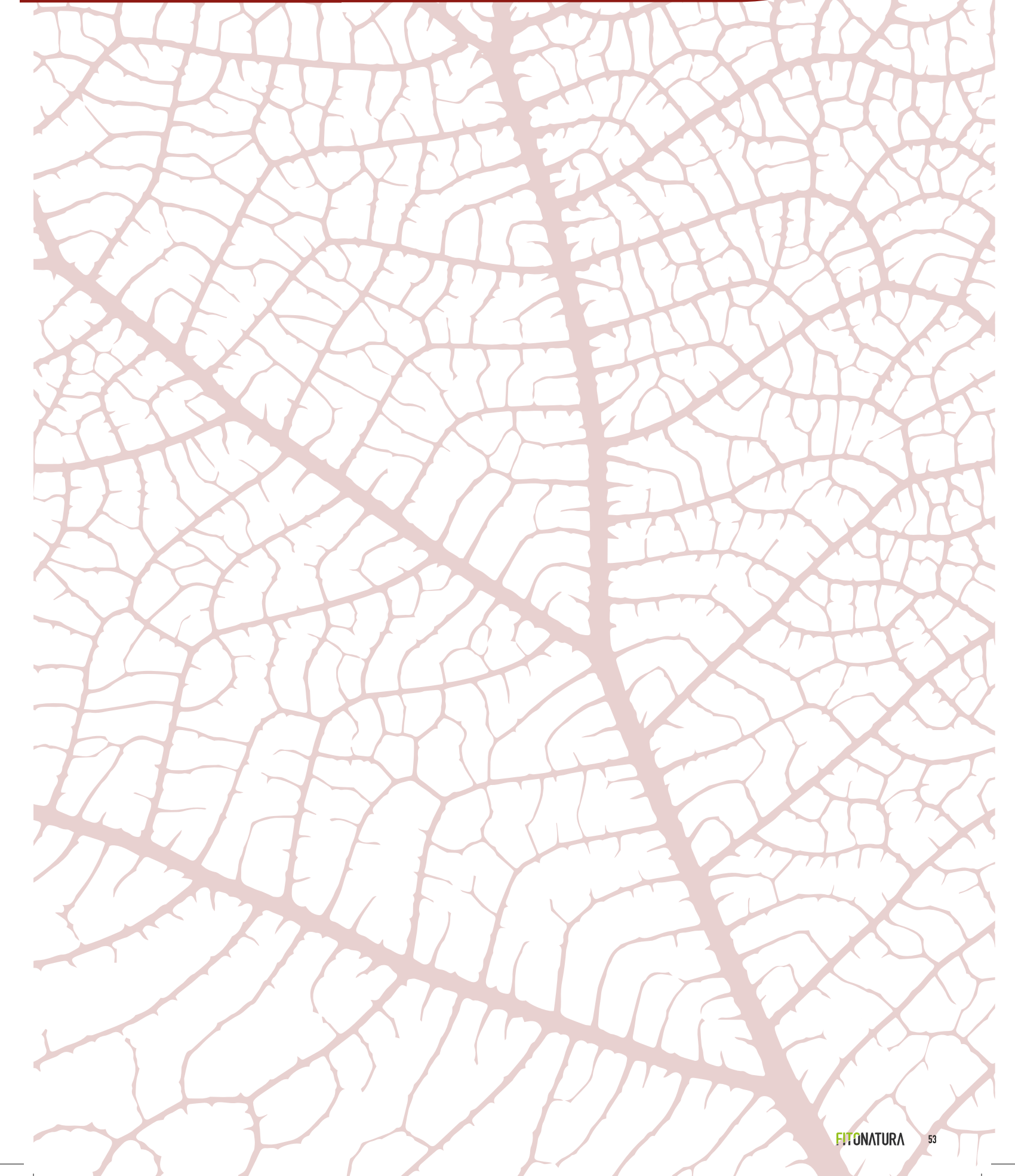
### COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	11% w/w	(14.85% w/v)
Ammoniacal Nitrogen (N)	9% w/w	(12.15% w/v)
Ureic Nitrogen (N)	2% w/w	(2.7% w/v)
Potassium oxide (K <sub>2</sub> O) soluble in water	5% w/w	(6.75% w/v)
Sulfur trioxide (SO <sub>3</sub> ) soluble in water	57% w/w	(76.95% w/v)
Boron (B) soluble in water	0.04% w/w	(0.054% w/v)
Iron (Fe) chelated by DTPA soluble in water	0.02% w/w	(0.027% w/v)
Zinc (Zn) chelated by EDTA soluble in water	0.04% w/w	(0.054% w/v)



CROPS	APPLICATION RATES FERTIGATION	STAGES AND RECOMMENDATIONS
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	25 - 50 l/ha	At the beginning of vegetative growth and during fruit enlargement
GREENHOUSE AND OPEN FIELD HORTICULTURE	25 - 50 l/ha	After transplant, during vegetative growth and during fruit enlargement
EXTENSIVE CROPS	-	In association with plant protection treatments
NURSERIES AND ORNAMENTALS	20 - 30 l/ha	After transplant
FLOWERS	20 - 30 l/ha	During vegetative growth, in case of chlorosis and high salinity

\* Foliar applications referred to standard water volumes



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