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History

DELTA, which was born in 1983, covers a precise role in the field of specialized nutrition for agricultural crops in Italy and abroad.

Delta is localized in the province of Verona, and it was born in order to satisfy the need of farmers to have easy-to-use and safe organic fertilizers, with guarantees of content and absence of unwanted elements.

The raw material which is mostly used is stabilized and humified manure, collected from 200 zootechnical farms in the Pianura Padana. Delta has added and implemented additional matrixes to the manure (always known as the "prince" of fertilizers) in order to increase and improve the formulation of new products.

From the earliest years, the company has stood out for its gamma of fertilizers destined both to traditional agriculture and to biologic agriculture: initially, exclusively with pelleted and powder organic fertilizers; then, Nitrogen products, correctives and a whole HORGAMIN® gamma of organo-mineral and granular products have been introduced.

Today, Delta includes in its catalogue:

- organic soil improvers
- powder and pelleted organic fertilizers
- granular and pelleted organo-mineral fertilizers
- mineral and water-soluble fertilizers
- correctives

The products are available in the most different packaging types:

- bulk
- 25kg bags on pallet
- 500 - 600 - 1000 kg big bags

It is the ductility in the range of products, obtained as a result of deep technological research, which makes Delta a company that is fast in serving its clients and in always looking for modern and exhaustive responses to the needs of farmers, in the greatest respect of the environment, in Italy as well as in Europe.

It owns a commercial network that is extended in Italy, Europe, North Africa and South-East Asia. Delta supplies fertilizers for all crops in the different geographical realities.

FERTILHUMUS®

IT DOES NOT
CONTAIN
WASTE-
DERIVED
COMPOST

GUARANTEE
OF
POLLUTANTS
ABSENCE

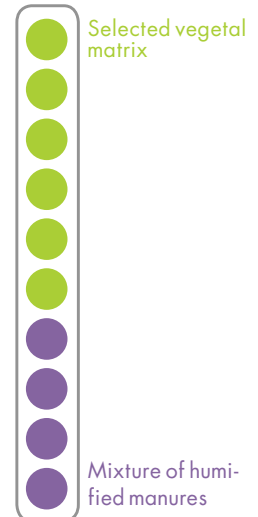
PRODUCTS AND
BY-PRODUCTS OF
VEGETAL ORIGIN FOR
THE FERTILIZATION

PERMITTED IN
BIO
AGRICULTURE

**OGM
FREE**



COMPOSITION



PACKAGING:

- 25 kg bag on a 1500 kg pallet
- 500kg big bags
- Bulk

CHARACTERISTICS:

FERTILHUMUS® cylindrical-shaped homogeneous pellet, with an average diameter of 3-4mm and an average length of 5-7mm.

It is obtained from the mixture and stabilization of vegetal material and manure.

The production cycle lasts about 6 months, in order to obtain a matrix that is balanced with the soil (no further fermentations, no mold formation, no ammoniacal exhalations).

FERTILHUMUS®, compared to several soil improvers present on the market, comes as dry, with a pellet that is easily spread, and it puts together the quality of the manure matrix with the ligno-cellulosic "structure" of the vegetal matrix.

An important distinctive feature in comparison with several soil improvers present on the market is the complete exclusion of organic matrixes coming from types of sludges (industrial ones or sludges from purification plants), of waste (RSU), of mowing and pruning.

During its formulation, it does not undergo processes of artificial exsiccation (with the use of ovens or warm air).

It does not contain pathogenic elements for humans, animals and vegetal (NO *Escherichia Coli*, salmonella, clostridia, streptococcus). It guarantees all hygienic-sanitary conditions

required by the current legislation.

Within an established periodicity, several germination tests are performed with seeds of herbaceous crops + usage of **FERTILHUMUS®** in order to verify its complete stability (no ammoniacal exhalations). In this way, the product is subject to the propagator alone, to verify the presence of potential "infesting seeds".

It is a fertilizer whose usage is recommended for all crops; it is suggested during soil renewals before ploughing, in situations of backfill terrains which need to be improved, in the case of new arboreal implants or planting, during the preparation of greenhouses or in open field for horticultural crops. It can also be used in a mixture of soil with peat and inert porous elements (clay, lapilli, zeolites).

FERTILHUMUS® quantities work as a function of the whole fertilization plan. Particularly, it is recommended as an organic base to "convey" in the best way the subsequent mineral fertilization. The product can be mixed with other organic Nitrogen fertilizers or pelleted correctives.



Preparation of germination bed to verify the compatibility



FERTILHUMUS® addition and incubation for several hours



AVERAGE CONTENTS

(according to the current legislation, the amounts for the soil improvers are expressed in % on dry matter)

Humidity	12 - 15%
Humified organic matter	43 - 45%
Organic Carbon (C)	25 - 26%
pH	7,5 - 8
Total Nitrogen (N)	2,4 - 2,6%
Total organic Nitrogen (N)	2 - 2,2%
Phosphorus pentoxide (P ₂ O ₅)	1 - 1,5%
Potassium oxide (K ₂ O)	1 - 1,5%
Humic acids + Fulvic acids	7%
Salinity	6,3 dS/m
Specific weight	11

Specific weight	0,5 - 0,6 kg/l
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MICROORGANISMS

(expressed in UFC/g, Units Forming Colonies for gram of product)

Total aerobic bacteria load	1.980.000.000
Total anaerobic bacteria load	1.505.000.000
Salmonella, clostridia, streptococcus, Escherichia Coli	ABSENT



MICROELEMENTS

Boron (B)	25 mg/kg
Total Copper (Cu)	130 mg/kg

APPLICATION PERIOD

FERTILHUMUS® represents a universal product, which can be used in the stage of soil preparation for all crops and situations in which the soil needs an organic soil improver. For this reason, the ideal moments to perform the distribution are:

- before ploughing: in order to restore biological vitality to the soil (above all in backfill terrains and/or terrains rich in limestone)
- before arboreal plant: at the soil ropture; avoid putting the roots in contact with the product (which has to be pre-mixed with peaty loam or soil). Then irrigate.
- during soil preparation before seeding or before transplant, as regards to horticultural crops: it would be a good agronomic rule to prepare product distribution 20 days earlier, with burial at 5 - 10 cm + irrigation, in order to activate its action.

DOSES AND MODALITIES OF USE IN ton/ha

EXTENSIVE CROPS:

Wheat/barley, other winter cereals	1,5 - 1,8
Rice	1,8 - 2,0
Corn	2,5 - 3,0
Soy, sunflower, rapeseed, other oilseed crops	1,3 - 1,5
Beetroot	1,8 - 2,0
Tobacco	1,8 - 2,0
Forage crops	1,5 - 1,8

HORTICULTURAL CROPS:

Horticultural crops in open field	1,5 - 1,8
Horticultural crops in greenhouses	120 - 150 kg for 1000 m ²
Horticultural crops in greenhouses (baby leaf)	100 - 200 kg for 1000 m ²

ARBOREAL CROPS:

Orchards/citrus orchards (young crops, after a year)	kg 1,5 / plant
Orchards/citrus orchards (plants in production)	kg 4 - 5 / plant

SOIL PREPARATION

25 kg of **FERTILHUMUS®** for m³ of loose soil, peat or soil that has already been preconceived but not fertilized (it can also contain inert material which confers porosity).

Vineyards (young crops, after a year)	kg 1,5 / plant
Vineyards (plants in production)	kg 4 - 5 / plant
Orchards/citrus orchards (young crops, after a year)	kg 1,5 / plant
Olive groves (young crops, after a year)	kg 1,5 / plant
Olive groves (plants in production)	kg 5 - 10 / plant

Turfs	g 300 - 500 / m ²
Golf courses/sports fields	g 300 - 500 / m ²
Aromatic and pharmaceutical crops	120 - 180 kg per 1000 m ²
Flower crops	130 - 150 kg per 1000 m ²

N.B. Mentioned crops are representative of each category; **FERTILHUMUS®** finds application for several other crops with the same modalities of use.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



Keep out of reach of children and animals

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Product should not be directly in contact with plant's roots. Only for professional use.



Properly dispose of packaging

FERTILVEGETAL®



COMPOSITION



100%
 Matrici Vegetali
 (panelli vegetali)

PACKAGING:

- 25 kg bag on a 1500 kg pallet
- 500kg big bags
- Bulk

CHARACTERISTICS:

FERTILVEGETAL® is a brand new organic fertilizer that permits the long and continued nitrogen release. The components reach in organic amino acids permits to improve biochemical mineralization of the organic matter stabilized and concentrated in pellets. All vegetal components within the product are able to release nutrients among the complete agricultural cycle, mostly in case of short and medium cultivation cycles for instance, greenhouse cultivations, salad, tomatoes, corn, sunflower, soybean, etc.

- 1) Good smell. The product do not present any bad smell due to the high concentration of stabilized vegetal amino acids from food chain productions;
- 2) Low constitutional moisture (6% approx.);
- 3) Good balance compression of each pellet, permit the optimal water exchange deprived of the presence of free powder;
- 4) Product created for hobby and professional use, suitable for closed areas that require good smell products;
- 5) **FERTILVEGETAL®** do not contains pruning or waste residues;

AGRONOMIC CLUES:

Greenhouse crops - open field horticulture: **FERTILVEGETAL®** may be distribute with traditional open field spreaders (disc

or double disc). We suggest spreading and covering with the last soil refining; after seeding or transplanting irrigate. In order to improve the distribution process we suggest opening the spreader holes. Use between 5-6 cm deep.

For greenhouse cultivations (Baby leaf or IV gamma) distribute the product on the substrate surface and included at 5-6 cm deep. **FERTILVEGETAL®** due to it composition, do not produce any germination depression.

Tree crops cultivation: **FERTILVEGETAL®** may be applied locally (under the tree foliage) or along the cultivation row. Only in case of adult trees, spread the product by traditional spreader or other system by open filed product distribution. In presence of grass vegetal covers on the row spacing, distribute **FERTILVEGETAL®** and cut the vegetal weeds in order to create a green mulching substrate which covers and helps the nutrient release of the product.

Flowers: **FERTILVEGETAL®** was designed to permit the professional use of an organic fertilizer on gardens, public areas, parks and retail distributors, which require high performances in terms of organic nitrogen without the smell of natural fermented organic (animal) fertilizers.

Open field cultivations: Spread **FERTILVEGETAL®** before seeding and cover it with the last soil refining (5-10cm deep).



FERTILVEGETAL® pellet



AVERAGE CONTENTS

(according to the current legislation, the amounts for the soil improvers are expressed in % on dry matter)

Moisture	13 - 16%
pH	7,5 - 8
Total organic (C) Carbon/dry matter	25 - 28%
Humified organic matter/dry matter	50 - 56%
Humic and fulvic acids/dry matter	5%
Total (N) nitrogen/dry matter	1,6 - 2,0%
Total organic (N) nitrogen/dry matter	1,6 - 2,0%
Total (Na) sodium	0,6%
Salinity	3,5 dS/m
Micro-organisms content	400.000 - 500.000 UFC/g
Boron (B)	10 mg/kg
Copper (Cu)	15 mg/kg
Zinc (Zn)	25 mg/kg

NOTES: Application flexibility of our new fertilizer **FERTILVEGETAL®** allow us to use this product in case where usage of animal raw materials is not permitted. Furthermore, our knowledge about the composition and the origin of the vegetal raw materials permit us to maintain high quality production standards regarding heavy metals and residues that respect the limits requested by Italian and organic legislations. Any sanitary aspect concerning the absence of *Salmonella*, *Escherichia coli*, antibiotics and sulfamides is certified. **FERTILVEGETAL®** do not contain weed seeds and is included in organic and biodynamic standards management as made per NATURLAND and others.

DOSES AND MODALITIES OF USE IN ton/ha

OPEN FIELD CULTIVATIONS:

Beans, Legumes	500 - 800
Asparagus, Onion, Carrots, Salad, Spinach, etc.	700 - 800
Garlic, Onion, Cabbage, Zucchini, etc.	800 - 900
Watermelon, Artichoke, Tomatoes, Melon	900 - 1000
Cucumber, Eggplant, Potato, Berries, Pepper	900 - 1100

GREENHOUSE CROPS:

Baby leaf, Rocket salad, Spinach, Baby lettuce, etc.	80 - 150 kg/1000 sq.mt
Tomatoes, Eggplant, Zucchini, sweet pepper	150 - 200 kg/1000 sq.mt

TREE CROPS:

Tree nursery	70 - 100 g/plant
Adult trees	2 - 4 kg/plant
Hazelnut	600 - 700 kg/ha
Cherry/nut tree	800 - 900 kg

Apple and kiwi tree	800 - 1000 kg
Olive, Grapevine, lemon, apricot and orange trees	900 - 1100 kg
Red fruits	100 - 150 kg/1000 sq.mt

FLOWER AND GREEN AREAS:

Garden and green parks	2 - 4 kg/ linear meter
Flower areas	80 - 150 kg/1000 sq.mt

SUBSTRATE MIXING

Add 7 - 8 kg of **FERTILVEGETAL®** on substrate mixtures.
Add this quantity to 1 cube MT of traditional substrate.

N.B. Mentioned crops are representative of each category; **FERTILVEGETAL®** finds application for several other crops with the same modalities of use.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



Keep out of reach of children and animals

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Only for professional use.



Properly dispose of packaging



DELTA FERT[®] SUPER

MANURE

ANIMAL ORGANIC
FERTILIZERS



COMPOSITION



Organic matrix
from mixture of
humified manure
(bovine and avicul-
tural manure)

PACKAGING:

- 25 kg bag on a 1500 kg pallet
- 500kg big bags
- Bulk

CHARACTERISTICS:

Physical state: homogeneous powder obtained after screening through 4 - 5mm loops.

Directly usable humus: it derives exclusively from the mixture and humification of selected manure (bovine and avicultural manure) which have undergone a process of fermentation/humification for 9 months.

It is one of the most complete products present today on the market, since it unifies a high intake of nutritional substances to a remarkable action for the general improvement of soil structure and fertility.

Thanks to the humification process, the product contains a reduced percentage of cellulose and lignin, already transformed directly into humus.

It does not undergo any process of artificial exsiccation (with the use of ovens or hot air), therefore it is rich in microbic load useful for the life of the soil.

TECHNICAL INDICATIONS OF USE:

Product whose usage is optimal for all crops; in particular, it is recommended for all loose terrains (sandy soils) with accentuated macro-porosity and heavy (clayey) terrains with high risk of constipation.

In the case of horticultural and extensive crops, better results are obtained by the spreading of product before the last process and by mixing it to the soil before seeding or before transplant.



In particular, open field spreading must take place at a minimum depth of 2 cm and a maximum one of 15 cm; the usage on arboreal crops must foresee a distance from the trunk of 18/20 cm and a depth of 10/15cm.

In the case of fertilization on orchards covered with grass (spontaneous turf or reseeded among the lines), the product must be spread homogeneously on the surface; it can be useful to subsequently mulch the grass in order to speed up product dissolution.



It can also be distributed on crop residues (straw, corn stalks) before their burial in order to facilitate their disintegration and to encourage the microbiologic activity involved in the terrain.

↓ AVERAGE CONTENT ON THE SUBSTANCE AS IT IS

Indicative humidity	23 - 26%
Humified organic matter	38 - 45%
pH	6 - 7
Total organic Nitrogen (N)	3 - 4%
Total Phosphorus pentoxide (P ₂ O ₅) (from phosphates and Phosphorus organic compounds)	3 - 4%
Total Potassium oxide (K ₂ O)	3 - 4%
Organic Carbon (C) of biologic origin	22 - 26%
Fulvic acids	9%
Humic acids	10%
Sulphur trioxide (SO ₃)	1%
C/N	7,3
Humification degree (DH)	50%
Humification rate (HR)	30%

↓ MICROELEMENTS

Boron (B)	23 mg/kg	Magnesium oxide (MgO)	1%	Specific weight	0,6 - 0,7 kg/l
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↓ BIOLOGIC PARAMETERS

At the end of the fermentation process it is possible to observe, from the data shown in the following chart, that the presence of *Escherichia Coli* and *Salmonella* appear absent or within limits of detection.



Process stage	Parameter	Sample				
		1	2	3	4	5
Beginning	E. Coli (UFC/g)	310.000	53.000	96.000	90.000	6.400
Half	E. Coli (UFC/g)	<10	<10	<10	<10	<10
End	E. Coli (UFC/g)	<10	<10	<10	<10	<10
	Salmonella (p/a 25 g)	Absent	Absent	Absent	Absent	Absent

AVERAGE DOSES OF USE IN kg/ha

Wheat, barley, rice	1000 - 1500	Orchards, citrus groves, olive tree	0,5 - 4,0 kg/plant
Corn, beetroot, tobacco	1200 - 1500	Vineyards	0,5 - 3,0 kg/plant
Horticultural crops (open field)	1800 - 2000	Turfs/parks	0,250 kg/m ²
Horticultural crops (in greenhouses)	100 - 300 kg/1000 m ²	Flower crops (on soil)	150 - 200 kg/1000 m ²

N.B. Abovementioned crops are representative for each category; **DELTA FERT® STALLATICO SUPER** finds application for several other species with the same modalities of use.

Preparation of fertilized soil:

15 - 20 kg of **DELTA FERT® STALLATICO SUPER** for each m³ of loose field, turf or soil that has already been preconceived but not yet fertilized (the whole can also contain inert material, which confers porosity).

Background fertilization for soil enrichment:

0,250 kg for each m², equal to 2500 kg for each hectare. Fertilization on stubbles, straw, crop residue (for the recovery of nutrients and the transformation of humus) 1000 - 1200 kg for each hectare.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.
 Keep out of reach of children and animals

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Product should not be directly in contact with plant's roots. Only for professional use.

Properly dispose of packaging

DELTA FERT[®] PELLET

STALLATICO



COMPOSITION



Organic matrix
from mixture of
humified manure
(bovine and avicul-
tural manure)

PACKAGING:

- 25 kg bag on a 1500 kg pallet
- 500kg big bags
- Bulk

CHARACTERISTICS:

Physical state: cylindrical-shaped homogeneous pellet with an average diameter of 3-4mm and an average length of 5-7mm.

Directly usable humus: it derives exclusively from the mixture and humification of selected manure (bovine and avicultural manure) which have undergone a process of fermentation/humification for 9 months.

It is one of the most complete products present today on the market, since it unifies a high intake of nutritional substances to a remarkable action for the general improvement of soil structure and fertility.

Thanks to the humification process the product contains a reduced percentage of cellulose and lignin, already transformed directly into humus.

It does not undergo any process of artificial exsiccation (with the use of ovens or hot air), therefore it is rich in microbic load useful for the life of the soil.

TECHNICAL INDICATIONS OF USE:

Product whose usage is optimal for all crops; in particular, it is recommended for all loose terrains (sandy soils) with accentuated macro-porosity and heavy (clayey) terrains with

high risk of constipation. In the case of horticultural and extensive crops, better results are obtained by the spreading of product before the last process and by mixing it to the soil before seeding or before transplant.



In particular, open field spreading must take place at a minimum depth of 2 cm and a maximum one of 15 cm; the usage on arboreal crops must foresee a distance from the trunk of 18/20 cm and a depth of 10/15 cm.

In the case of fertilization on orchards covered with grass (spontaneous turf or reseeded among the lines), the product must be spread homogeneously on the surface; it can be useful to subsequently mulch the grass in order to speed up product dissolution.



It can also be distributed on crop residues (straw, corn stalks) before their burial in order to facilitate their disintegration and to encourage the microbiologic activity involved in the terrain.

↓ AVERAGE CONTENT ON THE SUBSTANCE AS IT IS

Indicative humidity	16 - 18%
Humified organic matter	38 - 45%
pH	6 - 7
Total organic Nitrogen (N)	3 - 4%
Total Phosphorus pentoxide (P ₂ O ₅) (from phosphates and Phosphorus organic compounds)	3 - 4%
Total Potassium oxide (K ₂ O)	3 - 4%
Organic Carbon (C) of biologic origin	22 - 26%
Fulvic acids	9%
Humic acids	10%
Sulphur trioxide (SO ₃)	1%
C/N	7,3
Humification degree (DH)	48%
THumification rate (HR)	28%

↓ MICROELEMENTS

Boron (B)	20 mg/kg	Magnesium oxide (MgO)	1%	Specific weight	0,6 - 0,7 kg/l
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↓ MICROORGANISMS (expressed in UFC/g, units forming colonies for gram of product)

Total aerobic bacteria load	1.960.000.000
Total anaerobic bacteria load	1.450.000.000
Ammonia-oxidizing bacteria (AOB)	25-30x10 ⁵
Nitrite-oxidizing bacteria (NOB)	13 - 18x10 ⁵
Cellulolytic Microorganisms	18 - 22x10 ⁴
Aerobic schizomycetes	80 - 100x10 ⁷
Anaerobic schizomycetes	80 - 100x10 ⁷
<i>Escherichia Coli</i>	< 10 UFC/g
<i>Salmonelle</i> spp	ABSENT

Raw proteins	18 - 24%
Raw fats	1 - 2%
Raw fiber	8 - 10%
Alkaline phosphatase	40.000 - 60.000 UF/GMS
Cationic exchange capacity	30-50 meq/ 100 g

↓ BIOLOGIC PARAMETERS

At the end of the fermentation process it is possible to observe, from the data shown in the following chart, that the presence of *Escherichia Coli* and *Salmonella* appear absent or within limits of detection.



Process stage	Parametro	Campione				
		1	2	3	4	5
Beginning	E Coli (UFC/g)	310.000	53.000	96.000	90.000	6.400
Half	E Coli (UFC/g)	<10	<10	<10	<10	<10
End	E Coli (UFC/g)	<10	<10	<10	<10	<10
	Salmonella (p/a 25 g)	Absent	Absent	Absent	Absent	Absent

AVERAGE DOSES OF USE IN kg/ha

Wheat, barley, rice	1000 - 1500
Corn, beetroot, tobacco	1200 - 1500
Horticultural crops (open field)	1800 - 2000
Horticultural crops (in greenhouses)	100 - 300 kg/1000 m ²

Orchards, citrus groves, olive tree	0,5 - 4,0 kg/plant
Vineyards	0,5 - 3,0 kg/plant
Turfs/parks	0,250 kg/m ²
Flower crops (on soil)	150 - 200 kg/1000 m ²

N.B. abovementioned crops are representative for each category;

DELTA FERT® STALLATICO PELLETT finds application for several other species with the same modalities of use.

Preparation of fertilized soil:

15 - 20 kg of **DELTA FERT® STALLATICO PELLETT** for each m³ of loose field, turf or soil that has already been preconceived but not yet fertilized (the whole can also contain inert material, which confers porosity).

Background fertilization for soil enrichment:

kg 0,250 for each m², equal to kg 2500 for each hectare. Fertilization on stubbles, straw, crop residue (for the recovery of nutrients and the transformation of humus) kg 1000 - 1200 for each hectare

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



Keep out of reach of children and animals

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Product should not be directly in contact with plant's roots. Only for professional use.



Properly dispose of packaging



NATURALPOLLINA®



COMPOSITION



Organic matrix
from humified
manure mix
(bovine and avi-
cultural manure)

PACKAGING:

- 25 kg bag on a 1500 kg pallet
- 500kg big bags
- Bulk

CHARACTERISTICS:

Physical state: cylindrical-shaped homogeneous pellet with an average diameter of 3 - 4 mm and an average length of 5 - 7 mm. The product derives exclusively from the mixture and humification of selected manure (avicultural manure) which have undergone a process of fermentation/humification for 6 months. Thanks to the humification process, the product contains a reduced percentage of cellulose and lignin.

It does not undergo any process of artificial exsiccation (with the use of ovens or hot air), therefore it is rich in micro-bic load useful for the life of the soil.

NATURALPOLLINA®, thanks to the exclusive process of natural fermentation, does not contain components that can result as harmful for the soil and the crop.

It is one of the most complete products present today on the market, since it unifies a high intake of nutritional substances to a remarkable action for the general improvement of soil structure and fertility.

TECHNICAL INDICATIONS OF USE

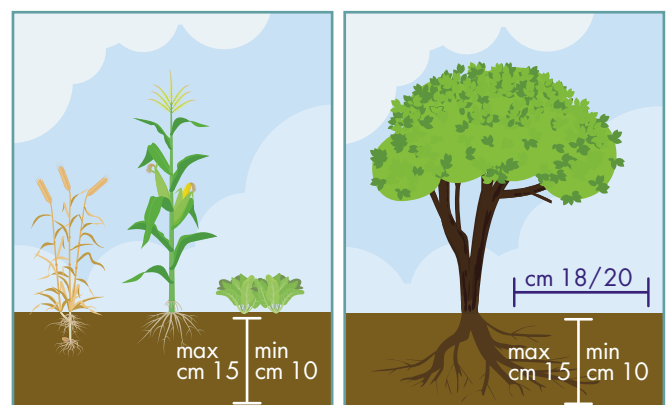
Product whose usage is optimal for all crops; in particular, it is recommended for all loose terrains (sandy soils) with accentuated macro-porosity and heavy (clayey) terrains with high risk of constipation.

Distribute the product immediately before the last process by mixing it to the soil before seeding or before transplant; in particular, open field spreading must take place at a minimum depth of 2 cm and a maximum one of 15cm; the usage on arboreal crops must foresee a distance from the trunk of 18/20 cm and a depth of 10/15 cm.

In the case of fertilization on orchards covered with grass (spontaneous turf or reseeded among the lines), the product must be spread homogeneously on the surface; it can be useful to subsequently mulch the grass in order to speed up product dissolution.

It can also be distributed on crop residues (straw, corn stalks) before their burial in order to facilitate their disintegration and to encourage the microbiologic activity involved in the terrain.

It is ideal to spread **NATURALPOLLINA®** open field application (spring), during the phase of vegetative growth/tillering of autumn-winter cereals.



↓ AVERAGE CONTENT ON THE SUBSTANCE AS IT IS

Indicative humidity	15 - 17%
Humified organic matter	68 - 74%
pH	6 - 7
Total organic Nitrogen (N)	3,5 - 4,5%
Total Phosphorus pentoxide (P ₂ O ₅) (from phosphates and Phosphorus organic compounds)	3 - 4%
Total Potassium oxide (K ₂ O)	2 - 3%
Organic Carbon (C)	25 - 28%
Fulvic acids	9%
Humic acids	10%
Sulphur trioxide (SO ₃)	1%
C/N	9,7
Humification degree (DH)	36%
Humification rate (HR)	24%

↓ MICROORGANISMS (expressed in UFC/g, units forming colonies for gram of product)

Total aerobic bacteria load	1.740.000.000
Total anaerobic bacteria load	1.550.000.000
Ammonia-oxidizing bacteria (AOB)	10 - 20x10 ⁵
Nitrite-oxidizing bacteria (NOB)	8 - 10x10 ⁵
Cellulolytic Microorganisms	15 - 20x10 ⁴
Aerobic schizomycetes	50 - 60x10 ⁷
Anaerobic schizomycetes	50 - 60x10 ⁷
Escherichia Coli	< 10 UFC/g
Salmonella spp	ABSENT

Raw proteins	21 - 25%
Raw fats	3 - 4%
Raw fiber	8 - 12%
Alkaline phosphatase	45.000 - 50.000 UF/GMS
Cationic exchange capacity	40-50 meq/ 100 g

↓ MICROELEMENTS

Boron (B)	25 mg/kg	Magnesium oxide (MgO)	0,5 - 1%	Specific weight	0,6 - 0,7 kg/l
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↓ BIOLOGIC PARAMETERS

At the end of the fermentation process it is possible to observe, from the data shown in the following chart, that the presence of *Escherichia Coli* and *Salmonella* appear absent or within limits of detection.



Stadio di processo	Parametro	Campione				
		1	2	3	4	5
Inizio	E. Coli (UFC/g)	310.000	53.000	96.000	90.000	6.400
Metà	E. Coli (UFC/g)	<10	<10	<10	<10	<10
Fine	E. Coli (UFC/g)	<10	<10	<10	<10	<10
	Salmonella (p/a 25 g)	Absent	Absent	Absent	Absent	Absent

AVERAGE DOSES OF USE IN kg/ha

Wheat, barley, rice (before seeding)	1000 - 1500
Wheat, barley, rice (tillering)	500 - 700
Corn, beetroot, tobacco	1200 - 1500
Horticultural crops (open field)	1800 - 2000
Horticultural crops (in greenhouses)	100 - 300 kg/1000 m ²

Orchards, citrus groves, olive tree	0,5 - 4,0 kg/plant
Vineyards	0,5 - 3,0 kg/plant
Turfs/parks	0,250 kg/m ²
Herbariums- pastures (coverage)	700 - 1000
Flower crops (on soil)	100 - 150 kg/1000 m ²

N.B. abovementioned crops are representative for each category;

NATURALPOLLINA® finds application for several other species with the same modalities of use.

Preparation of fertilized soil:

10 - 12 kg of **NATURALPOLLINA®** for each m³ of loose field, turf or soil that has already been preconceived but not yet fertilized (the whole can also contain inert material, which confers porosity).

Background fertilization for soil enrichment:

kg 0,250 for each m², equal to kg 2500 for each hectare. Fertilization on stubbles, straw, crop residue (for the recovery of nutrients and the transformation of humus) kg1000 - 1200kg/ha.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



Keep out of reach of children and animals

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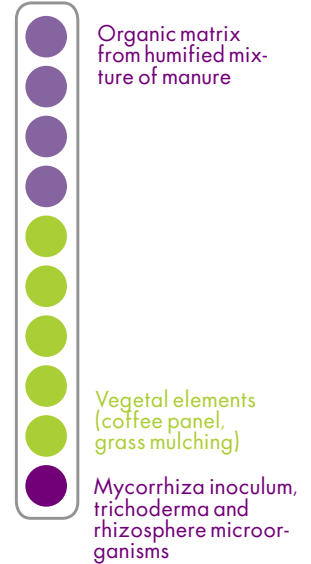
Properly dispose of packaging



STARSOIL®



COMPOSITION



PACKAGING:

- 25 kg bag on a 1500 kg pallet
- 500kg big bags
- Bulk

CHARACTERISTICS:

The ground needs interventions in order to keep and, if possible, improve during time its fertility characteristics: this allows crops to produce good harvest with a high quality product. Therefore, please pay attention not only to plant nutrition, but also to soil protection, whose fertility problems might be:

- lack of organic matter
- excessive surface oxidation
- poor biological activity
- compaction

An important and distinctive factor is the complete absence of organic elements coming from sludges (industrial, civil purifiers), from rubbish (RSU), from mulching and pruning.



Treated lettuce in garden centre (right)
Untreated lettuce in garden centre (left)

For this reason, DELTA offers **STARSOIL®**: created with vegetal organic elements and animal manure that undergo a 9 months-long process of fermentation/humification which guarantees the humification and the absence of potential infesting seeds.

During the last phase takes place the inoculation of mycorrhiza (*Glomus Intraradicens*) + selected microorganisms, among which there is the *Trichoderma* spp (*Harzianum*).

Inoculums are kept to rest and multiply inside the main heap of manure and are later transferred into bigger heaps where they can multiply their microorganisms and their enzymatic activity, which will be moved to the ground in the pre-processing phase. The final aim is to create an optimal condition for the increase of biological activity in the rhizosphere and a more developed and efficient root system.



Root development of spinach with **STARSOIL®**



COMPOSITION AND AVERAGE CONTENT

(according to current legislation, values for soil improvers are expressed in % for dry elements)

Mixed composted soil improver	98,8%
Mycorrhiza content	0,2%
Rhizosphere bacteria (CFU/g)	1.198.900.000
Trichoderma spp. (harzianum) (1x10 ⁸ CFU/g)	1%
Humidity (H ₂ O)	16 - 22%
Organic Carbonate (C)	28 - 30% s.s.
Organic matter	56 - 60% s.s.
Humic/fulvic Carbon	7% s.s.
Total Nitrogen (N)	3,5 % s.s.
Organic Nitrogen (N)	3,0 % s.s.
pH	7,5
C/N	8

Specific weight	0,6 - 0,7 kg/l
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MICROORGANISMS

(expressed in UFC/g, colony-forming units for g of product)

Total aerobic bacteria load	1.960.000.000
Total anaerobic bacteria load	1.450.000.000
Escherichia Coli	< 10 UFC/g
Salmonella, clostridia, streptococcus	ABSENT



MICROELEMENTS

Boron (B)	20 mg/kg
Magnesium oxide (MgO)	1%

AVERAGE DOSAGE AND DIRECTIONS OF USE



STARSOIL® pellet

STARSOIL® is recommended for every soil that needs the reactivation of biological activity: fields after work and destined to arboreal planting, fields that suffer from "fatigue" caused by monoculture succession, fields that undergo premature horticulture transplants with a medium-long 50 - 90 day long cycle, fields that need an integrated management of the planting for mulching/covering or mulching/green manure (arboretum/vineyard).

AUTUMN-WINTER CEREALS:

open field distribution with the amount of 2 ton/ha and consequent burial, max 25 cm of depth: the best moment is in the pre-sowing period in autumn (for wheat, barley, oat and spelt) and in february-march on pre-tillage hay for rice.

HORTICULTURAL CROPS:

open field distribution with the amount of 2 ton/ha and consequent burial, max 25 cm of depth: the best moment is during soil preparation, post-tillage or before the last process of soil refining, during pre-transplant or sowing.

The process can also be made on a 50 - 60 cm wide line that equals to 1 ton/ha for horticultural crops with a medium-long cycle, or 200 kg for 1000 m² if in a tunnel greenhouse.

ARBOREAL CROPS:

open field distribution with the amount of 2 ton/ha for orchards, vineyards, citrus trees and olive trees; in case of "planting" it is recommended to add **STARSOIL®** in february before vegetative restart of grass, be it destined to mulching or green manure.

NEW ARBOREAL IMPLANTS:

distribution with the amount of 40 - 60g/hole (depending on its dimension), mixed with the soil.

SOIL/SUBSTRATE PREPARATION:

mix 15/20% of **STARSOIL®** with the soil in use, let it rest for some hours and then proceed with re-potting.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



Keep out of reach of children and animals

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Properly dispose of packaging



RHYGEN®



COMPOSITION



100%
organic matrixes
from vegetal
panels

PACKAGING:

- 25 kg bag on a 1500 kg pallet
- 500kg big bags

RHYGEN® is a pelleted organic fertilizer formulated exclusively with matrixes of vegetal nature. It can be used in conventional and integrated agriculture. It is allowed in biological agriculture.

The product is in line with the main norms that regulate biodynamic agriculture. Its main agronomic and fertilizing characteristics result from the properly developed mix of vegetal matrixes that perform the following actions:

- they provide slow-release Nitrogen with a mineralization curve in standard conditions of 70 - 80 days, which allows to follow the early stage of development of all horticultural, arboreal (this latter at least until flowering) and flower crops. Furthermore, this allows to avoid risks of nitrate accumulation or run-off, important factor when it comes to operating in "vulnerable areas" or areas with superficial aquifers/resurgences.
- they release in the soil, and in the area of root absorption, proteins, amino acids and intermediate compounds, which help the renewal of the root capillitium secondary roots, above all during springtime with temperatures ranging from 18° and 25°C in the soil.
- they release molecules present in nature, such as flavonoids, which help cellular distension even in stress conditions related to the climate or to the soil.

- vegetal matrixes of leguminous origin have revealed to be ideal to contrast phenomena due to "soil fatigue"; **RHYGEN®** is particularly recommended after fumigations in order to reactivate vitality in the soil, that is ready to welcome the new crop.

RHYGEN® can also be applied several times during vegetative cycle, with following weeding or tamping raw tillaging. This modality is recommended for tuberaceae crops or plants with a medium-long cycle (4 - 6 months), such as tomato, courgette and crucifers in general.

RHYGEN® does not contain matrixes coming from agro-industrial waste or types of sludges (industrial or from civil purifiers), garbage (RSU), cuttings or road pruning.



FLOWER CROPS

↓ AVERAGE CONTENT ON THE SUBSTANCE AS IT IS

Humidity (H ₂ O)	9 - 12	Total Phosphorus pentoxide (P ₂ O ₅)	1 - 2 %
Total organic Nitrogen (N)	4,0 - 4,5 %	Potassium oxide (K ₂ O) soluble in water	2 - 3 %
Organic Carbon (C)	35 - 40 %	pH	6 - 7
Organic matter	70 - 80 %	Specific weight	0,8 kg/l

AGRONOMIC USAGE AND MODALITIES OF USE

RHYGEN® is an organic fertilizer which can be used during soil preparation for the majority of crops, but in particular for:

- vegetable crops (in greenhouse and in open field)
- fruit trees (new implant and in production)
- nurseries of fruit plants and garden/reforestation plants
- baby leaf crops (IV° gamma horticultural crops)
- on every kind of strongly exploited soil which needs and intake of overall fertility

It must be distributed homogeneously on all surface or localized (depending on needs and starting condition); it is necessary to bury the product and then to irrigate.

WARNING: based on described characteristics and on its physical state, for this product it is recommended to use gloves, mask and protective glasses.

Any animal must be kept away from treated areas for at least 4 - 5 days.



DOSES AND MODALITIES OF USE IN kg/ha

ARBOREAL CROPS:

(in production, on the line to a width of 60 - 70cm)

Hazelnut tree	500 - 700
Cherry tree, almond tree	600 - 800
Actinidia, chestnut tree, pomegranate tree	700 - 900
Apple tree, pear tree	700 - 900
Olive tree, mandarine, clementine, walnut tree, plum tree	800 - 1000
Peach tree, lemon tree, apricot tree, orange	700 - 900
Dessert grape	500 - 600
Wine grape	500 - 600

VEGETABLE GARDEN:

(in production, on the line to a width of 60 - 70cm)

Bean, haricot	400 - 500
Asparagus, fresh consume lettuce, spinach	800 - 900
Garlic, onion, carrot, caggabe, fennel, pea, pumpkin	600 - 700
Watermelon, artichoke, chicory	700 - 800
Melon, tomato, courgette, cucumber, eggplant, potato, strawberry, bell pepper	700 - 1000

The usage on crops in greenhouse, including IV° gamma baby leaf, recommends an intake of at least 150 - 200 kg for 1000 m²

ESTENSIVE CROPS:

Soft wheat, durum wheat	600 - 800
Rice, grain sorghum, waxy corn	500 - 900
Grain cereals	700 - 900
Sugar beet	600 - 800
Tobacco	600 - 900

GREEN GARDEN:

Hedges and borders	400 - 500 g/ linear meter
Flower beds	80 - 120 g/m ²
Lawns	50 - 80 g/m ²

FLOWERS:

Lisianthus, gerbera, gillyflower, ranunculus	50 - 100 g/m ²
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Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



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Properly dispose of packaging

ECOBIOFER®

**SOLUBLE
IRON**
**IRON
COMPLEXED
WITH MANURE**
25%FeSO₄
**ALLOWED IN
ORGANIC
FARMING**
BIO

COMPOSITION

 Organic matrix
from humified
mixture of manures
(bovine and avicul-
tural manure)

 Iron salt
(sulphate)

PACKAGING:

- 25 kg bag on a 1500 kg pallet
- 500kg big bags
- Bulk

CHARACTERISTICS:

ECOBIOFER® is obtained from two fertilizers, humified selected manure and Iron salt (sulphate), whose known characteristics are enhanced by their simultaneous presence.

A fundamental step is the mixture of compounds during the last humification phase, in order to allow Iron salt assimilation and to obtain a natural complexed which defends the carbonates present in the soil.

Physical state: cylindrical-shaped homogeneous pellet with an average diameter of 3 - 4mm and an average length of 5 - 7mm.

It prevents and heals ferric chlorosis, which is the consequence of effective Iron deficiencies in the soil or of its unavailability to root absorption, caused by the excessive presence of limestone.

It is therefore necessary that the Iron is protected by the possibility of being immobilized in the soil and the best protective action is performed by humified organic substances.

With an **ECOBIOFER®**-based fertilization, the crop is also provided slow-release organic nitrogen which, above all in autumn fertilizations, does not take the risk of being washed out by the rain.

ECOBIOFER® is ideal for the fertilization of orchard implants (apple tree, pear tree, peach tree, cherry tree, plum tree) and of vineyards, since it allows the creation of Iron and organic matter

stocks in depth, in areas of the soil that won't be accessible during the following stages of cultivation.

Recommended doses are usually enough to prevent and heal Iron deficiencies and to realize an adequate basic nitrogenous nutrition.

ECOBIOFER® is widely used during the winter-spring period for the fertilization of gardens, lawns, shrubs, borders of various types. After distribution, it is ideal to slightly bury; from March onwards, irrigate as required.

Open field spreading of the product must take place at a minimum depth of 2 cm and a maximum of 15 cm; usage on arboreal crops must foresee a distance from the trunk of 18/20cm and a depth of 10/15cm.





AVERAGE CONTENTS ON THE SUBSTANCE AS IT IS

pH (indicative)	5 - 6
Indicative humidity	14 - 16%
Total Nitrogen (N)	3%
Organic Nitrogen (N)	2%
Total Phosphorus pentoxide (P₂O₅)	2%
Total Potassium oxide (K₂O)	1,5%
Total Sulphur (SO ₃) trioxide	7%
Total Sulphur (SO ₃) soluble in water	2%
Humified organic matter	43%
Organic Carbon (C) of biologic origin	25%
C/N ratio	8,3
Humification degree (DH)	25%
Humification rate (HR)	10%
Fulvic acids	8%
Humic acids	6%

Iron salt (sulphate) (FeSO₄)	25%
Specific weight	0,9 - 1,0 kg/l



MICROORGANISMS

(expressed in UFC/g, units forming colonies for g of product)

Total aerobic bacteria load	1.480.800.000
Total anaerobic bacteria load	920.500.000
Salmonella, clostridia, streptococcus, Escherichia coli	ABSENT



MICROELEMENTS

Boron (B)	10 mg/kg
Total Iron (Fe)	5%



Doses and modalities of use in kg/ha

CROP	PERIOD	DOSES	DIRECTIONS
Apple tree, pear tree, cherry tree, apricot tree	Beginning of spring, autumn after harvest	0,5 - 1 kg for each plant	Bury the product; if covered with grass, spread before mulching
Peach tree, plum tree, actinidia	Beginning of spring, autumn after harvest	1,0 - 1,5 kg for each plant	Bury the product; if covered with grass, spread before mulching
Wine grape, dessert grape, citrus fruits	Beginning of spring, autumn after harvest	0,5 - 1 kg for each plant	Bury the product; if covered with grass, spread before mulching
Strawberry, horticultural crops	Before seeding or before transplant during soil preparation	600 - 800 kg/ha	Bury the product before soil arrangement
Protected crops, flower crops, green frond plants	Before seeding or before transplant during soil preparation	80 - 150kg for 1000 m ²	Bury the product or spread on surface; then irrigate



Doses and modalities of use in kg/ha against FERRIC CHLOROSIS

CROP	Non-calcareous and/or with good amount of organic matter	Non-calcareous and/or with low amount of organic matter	Lacking Iron and/or very calcareous
Orchards, vineyards, Actinidia, citrus fruits	1000 - 1200	1500 - 2000	2000 - 2500
NEW IMPLANT	Burial depth depends on degree of deficiency		
Orchards, vineyards, Actinidia, citrus fruits	600 - 700	800 - 1100	1000 - 1200
ON THE LINE WITH PLANTS IN PRODUCTION	Slightly bury; if not possible, spread before grass mulching		
Horticultural and flower crops	600 - 900	1000 - 1200	1200 - 1500

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



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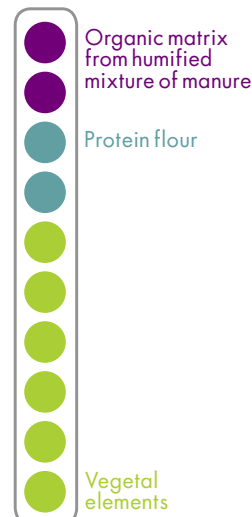


Properly dispose of packaging

VIGORIT®



COMPOSITION



PACKAGING:

- 25 kg Bags on a 1500 kg pallet
- 500 kg Big Bags

VIGORIT® is an organic pelleted fertilizer, formulated with vegetal and animal elements. It can be used in the practice of conventional agriculture and also Integrated agriculture. Permitted in biological agriculture.

VIGORIT® is a formula with organic vegetal and animal manure elements that undergo a fermentation and humification process for a period of nine months, in order to guarantee the humification and the absence of potential infesting seeds.

Its main agronomical peculiarities and fertilizing effects are obtained through the mix of vegetal elements which perform the following functions:

- They provide slow-release nitrogen with a mineralisation standard curve of 70 - 80 days, which allows the development in the initial phase of horticultural, arboreal and flower crops (at least until flowering). Furthermore, there is no risk of accumulation or nitrate leaching, an important factor when it comes to "vulnerable zones" or with superficial flaps/resurgences.
- They free proteins, aminoacids and intermediate compounds in the ground and in the area of radical absorption, which help the renewal of the radical scalp, above all in spring and with optimal soil temperatures that swing between 18°C and 25°C.
- They free molecules present in nature such as flavonoids, that

help the cellular distention in conditions of climatic stress or stressed soil.

- Vegetal elements of leguminous origin appear appropriate to contrast manifestations like "ground fatigue"; in particular, **VIGORIT®** is especially indicate after fumigations in order to reactivate ground vitality, a prompt action to welcome the new culture
- **VIGORIT®** can also be applied several times during the growth cycle, with following weeding and tamping. Recommended modality for tuberaceae crops or medium-long cycle crops (4 - 6 months) such as tomatoes, zucchini and brassicas in general.

VIGORIT® doesn't contain elements of agroindustrial waste or sludge (industrial or from city purifiers), litter (RSU) cuttings or prunings.



↓ AVERAGE CONTENT ON THE SUBSTANCE AS SUCH

Humidity (H ₂ O)	12 - 14	Total phosphorus pentoxide (P ₂ O ₅)	1 - 2 %
Total organic Nitrogen (N)	5,0 - 5,5 %	Potassium oxide (K ₂ O) soluble in water	1 - 2 %
Organic Carbon (C)	25 - 30 %	pH	6 - 7
Organic matter	50 - 60 %	Specific weight	0,7 kg/l

AGRONOMIC USAGE AND DIRECTIONS OF USE

VIGORIT® is an organic fertilizer that can be used for soil preparation for crops in general, but in particular:

- for vegetable crops (in greenhouses or in open field)
- for fruit trees (new implant and production)
- for garden centres for fruit trees and gardens/reforestation
- for baby leaf crops (gamma IV crops)
- for every type of soil that is highly used and needs a contribution of overall fertility

The product should be distributed homogeneously on all surface or localised (depending on necessities and starting conditions); burial and irrigation are necessary.

ATTENTION: according to described characteristics and physical state, this is the type of product that needs the use of protective gloves, mask and glasses.

Potential animals must be kept away from treated areas for at least 4-5 days.



Dosage and directions of use in kg/ha

ARBOREAL CROPS:

(in production, in a line large 60 - 70cm)

Hazelnut tree	500 - 700
Cherry tree, almond tree	600 - 800
Kiwifruit, chestnut tree, pomegranate tree	700 - 900
Apple tree, pear tree	700 - 900
Olive tree, tangerine, clementina, walnut, plum tree	800 - 1000
Peach tree, lemon tree, apricot tree, orange tree	700 - 900
Dessert grape	500 - 600
Wine grape	500 - 600

VEGETABLE CROPS:

(in production, in a line large 60-70cm)

Bean, string bean	400 - 500
Asparagus, salad, spinach	800 - 900
Garlic, onion, carrot, cabbage, fennel, peas, pumpkin	600 - 700
Watermelon, artichoke, chicory	700 - 800
Melon, tomato, zucchini, cucumber, eggplant, potato, strawberry, bell pepper	700 - 1000

Usage on crops in greenhouses (including baby leaf IV° gamma) considers a quantity of at least 150-200 kg for 1000m²

FIELD CROPS:

Soft wheat-durum wheat	600 - 800
Rice, grain sorghum, waxy corn	500 - 900
Grain corn	700 - 900
Sugar beet	600 - 800
Tobacco	600 - 900

GREEN GARDEN:

Soft wheat-durum wheat	400 - 500 g/linear metre
Flowerbeds	80 - 120 g/m ²
Lawns	50 - 80 g/m ²

FLOWERS:

Lisianthus, gerbera, garofano, ranunculus	50 - 100 g/m ²
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N.B. Abovementioned crops are representative for every category; **VIGORIT®** finds application for a lot of other species with the same directions of use.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



Keep out of reach of children and animals

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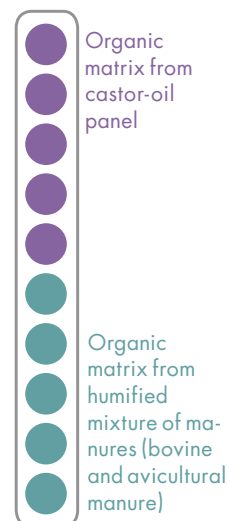


Properly dispose of packaging

RICINITO® PLUS



COMPOSITION



PACKAGING:

- 25 kg bag on a 1500 kg pallet or 750 kg mini pallet
- 500 kg big bags
- Bulk

RICINITO® PLUS is an organic fertilizer with both vegetal and animal nature.

RICINITO® PLUS, vegetal castor-oil panel, represents the most noble protein fraction of the castor-oil seed after oil extraction.

RICINITO® PLUS counts himself among the "high quality" organic nitrogenous fertilizers, since it guarantees a "slow-release" nitrogenous nutrition that is gradual over time; the duration of the nutritional action is about 80/90 days, in function of the type of soil, of the quantities used, of the cultivation technique.

One of its main characteristics is given by the fact that the product contains both a matrix of vegetal origin (panels) and of animal origin (humified manures). The tight relation between them allows the enrichment of humic substances in the soil and the CSC (capacity of cationic exchange), contributing to the fertilizing richness in the most important areas for root development.

It combats "soil fatigue" and contributes to the development of favorable conditions for a better biologic balance in the soil. All these are aspects which render the crop stronger against adversities during the vegetative cycle.

PHYSICAL CHARACTERISTICS

RICINITO® PLUS is guaranteed:

- 1) Free of pathogens. (No *Escherichia Coli* or *Salmonella*).
- 2) **It do not content industrial residues or non organic components**
- 3) **It does not contain GMO** (Genetically Modified Organisms) raw materials.
- 4) **Free from active ricin**

Miscibility: possible with all products, both organic and organo-mineral pelleted ones.

Odor: not prone to abnormal evolutions over time during conservation (if done according to the rule).

Stability over time: total; it does not generate fermentation processes during the storage phase (if done according to the rule), since it is produced with stable matrixes.

Disgregability: gradual and complete in conditions of humidity and biologic activity, which activates soil mineralization.



Pellet product with
 $\varnothing = 2 - 4 \text{ mm}$
 $L = 8 - 10 \text{ mm}$.

RICINITO® PLUS

**Read carefully the
modalities of use**

↓ AVERAGE CONTENTS ON THE SUBSTANCE AS IT IS

Humidity (H ₂ O)	16 - 18 %	Total Phosphorus pentoxide (P ₂ O ₅)	2 - 2,5 %	MICROORGANISMS (expressed in UFC/g)
Organic Carbon (C)	30 - 35 %	Total Potassium oxide (K ₂ O)	1 - 1,5 %	
Organic substance	60 - 70 %	Total Magnesium oxide (MgO)	0,5 - 0,7 %	
Fulvic and Umic acids	3%	Total Calcium oxide (CaO)	3%	
Total organic Nitrogen (N)	5%	Specific weight	0,63 kg/l	
				Total aerobic bacteria load
				1.100.000.000
				Total anaerobic bacteria load
				600.000.000

Periodo di applicazione

Application period: Horticultural crops: spread and bury 10 - 15 cm before seeding/before transplant. **Irrigate.**

Arboreal crops: bury in open field or on the line; in case the lines are covered with grass, proceed with a following mowing to favor product action. The product, thanks to its organic compound, is not prone to leaching. **Irrigate.**

Extensive crops: spread and bury 10 - 15 cm during soil preparation or during seeding; it is possible to also proceed with a spreading in coverage with weeding. **Irrigate.**

Lawn: spread homogeneously on lawn surface and along its borders. If possible, proceed with soil compactation for a slight burial. **Irrigate.**

WARNING: based on described characteristics, for this product it is recommended to use gloves, mask and protective glasses (as if it were a normal Sulphur or Copper distribution).

Any animal must be kept away from treated areas for at least 15 days from the application. It is recommended to irrigate. IMPROPER USE CAN BE HARMFUL. DO NOT SWALLOW. IT PROVOKES SEVERE EYE DAMAGE.



DOSES AND MODALITIES OF USE IN kg/ha

ARBOREAL CROPS: (new implant)

600 - 700 in open field, or 50 - 60 g for each plant in the hole mixed with terrain

ARBOREAL CROPS: (in production, on the line for a length of 60 - 70 cm)

Hazel tree	500 - 700
Cherry tree, almond tree	600 - 800
Actinidia, chestnut tree, pomegranate tree	700 - 900
Apple tree, pear tree	700 - 900
Olive tree, mandarin, clementine, walnut tree, plum tree	800 - 1000
Peach tree, lemon tree, apricot tree, orange tree	700 - 900
Dessert grape	500 - 600
Wine grape	500 - 600

HORTICULTURAL CROPS: (in production, on the line for a length of 60 - 70cm)

Bean, string bean	400 - 500
Asparagus, fresh salad, spinach	800 - 900
Garlic, onion, carrot, cabbage, fennel, pea, pumpkin	600 - 700

Watermelon, artichoke, chicory	700 - 800
Melon, tomato, courgette, cucumber, eggplant, potato, strawberry, bell pepper	700 - 1000

The use on horticultural crops in greenhouses (including IV gamma baby leaf) foresees an intake of at least 150/200kg for 1000 m²

EXTENSIVE CROPS

Soft wheat, durum wheat	600 - 800
Rice, grain sorghum, waxy corn	500 - 700
Grain maize	700 - 900
Sugar beet	600 - 800
Tobacco	600 - 900

Hedges and borders	400 - 500 g/linear meter
Flowerbeds	80 - 120 g/m ²
Lawns	50 - 80 g/m ²

N.B. abovementioned crops are representative for each category; **RICINITO® PLUS** finds application for several other species with the same modalities of use.

Gardening/nursery use: possibility to use **RICINITO® PLUS** with distribution on vase surface and with **following abundant watering**; the quantities for flowers are referred to vase diameter, taking as a reference about 20/40 g of product for a vase of 14 cm of diameter. Same thing goes for vases containing green plants,

whose reference is the 22 cm vase; in that case, the quantity must be increased by 20 - 30%.

RICINITO® PLUS can be mixed to the potting soil formula in a proportion of 8/19 kg for cubic meter of soil.

Doses also depend on the plan of nutritional fertilization which follows **RICINITO® PLUS**. Moreover, it is recommended not to decrease quantities below 500 - 600 kg for hectare.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



Keep out of reach of children and animals

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Product should not be directly in contact with plant's roots. Only for professional use.



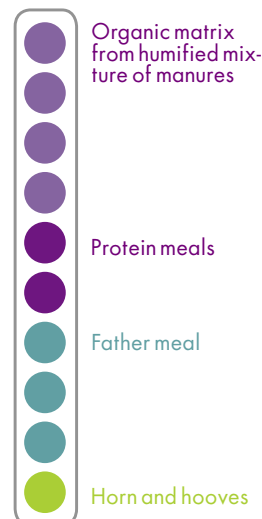
Properly dispose of packaging



FERTILCORN® 6



COMPOSITION



PACKAGING:

- 25 kg bag on a 1500 kg pallet
- 500kg big bags
- Bulk

CHARACTERISTICS:

Physical state: cylindrical-shaped homogeneous pellet with an average diameter of 3 - 4 mm and an average length of 5 - 7 mm.

FERTILCORN® 6 is an organic fertilizer with slow-release organic Nitrogen, particularly ideal for the fertilization of the most important horticultural, ornamental and fruit crops. The release of Nitrogen, meso elements and microelements contained in the organic substances used in **FERTILCORN® 6** is gradual, since it is linked to the biochemical processes of the four organic matrixes in the soil.

The first Nitrogen released is the one of humified manure, then the one contained in protein meals, then the one of feather meal and horn and hooves. This avoids the accumulation of mineral Nitrogen in the soil, which can cause phytotoxicity problems in the plant and leaks due to leaching of the Nitrogen in nitric form.

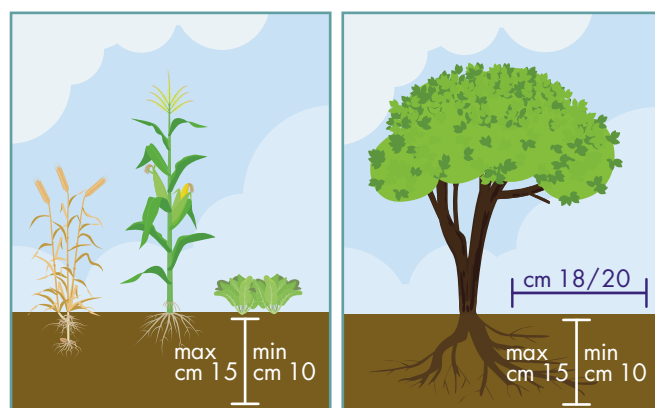
FERTILCORN® 6 is a completely organic fertilizer ideal for the basic fertilization of all crops. It can be used in autumn (October-November) and at the end of winter (February-March). It does not run off and it acts gradually during the vegetative cycle. The product is ideal for all hobby crops

in vegetable gardens and gardens: flowers, hedges, fruit trees, borders, lawns.

FERTILCORN® 6 can be mixed during the preparation of soil (also biologic) in the quantity of 4 - 5 kg for each cubic meter of peat; or distributed on the surface of vases with medium-large diameter and periodically irrigated.

FERTILCORN® 6 has shown to be ideal on Baby Leaf (IV° gamma) crops, creating a basic fertility which provides the correct balance for crops with a short-very short cycle: it does not give an excessive vegetative vigor, nor does it create rottenness.

Open field spreading of the product must take place at a minimum depth of 2 cm and a maximum of 15 cm; usage on arboreal crops must foresee a distance from the trunk of 18/20 cm and a depth of 10/15 cm.



↓ AVERAGE CONTENTS ON THE SUBSTANCE AS IT IS

pH (indicative)	6-7
Total organic Nitrogen (N)	6 - 7%%
Total Phosphorus pentoxide (P ₂ O ₅) from organic compounds	1,2 - 1,8%
Total Potassium oxide (K ₂ O) from organic compound	1-1,5%
Total Magnesium oxide (MgO)	0,5%
Total Sulphur (SO ₃) trioxide	0,5%
Organic Carbon (C) of biologic origin	34-37%
Humified organic matter	58-63%
Humic acids	5%
Fulvic acids	7%
Specific weight	0,7-0,8 kg/l

↓ MICROORGANISMS (expressed in UFC/g, units forming colonies for g of product)

Total aerobic bacteria load	1.365.000.00 UFC/g
Total anaerobic bacteria load	1.026.000.000 UFC/g

↓ MICROELEMENTS

Boron (B)	25 mg/kg
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Doses and modalities of use in kg/ha

CROP	PERIOD	DOSES	DIRECTIONS
HORTICULTURAL CROPS	Before transplant	700 - 800 kg/ha open field	Bury the product during last procedure
BORDERS, FLOWERS	Before transplant or in coverage	0,200 kg/m ² or linear meter	Bury the product and irrigate
LAWNS	Before seeding or in coverage	80 - 150 g/m ²	Distribute the product, roll and irrigate
BABY LEAF (IV° GAMMA)	Before seeding every 2 - 3 cycles in function of crop	80 - 110 kg on 1000 m ²	Bury at 5 - 10 cm of depth and irrigate
APPLE TREE, PEAR TREE, CHERRY TREE	After harvest or in spring	600 - 800 kg/ha	Bury the product; if covered with grass, spread before mulching
PEACH TREE, ACTINIDIA	After harvest or in spring	700 - 900 kg/ha	Bury the product; if covered with grass, spread before mulching

N.B. mentioned crops are indicative of each category; **FERTILCORN® 6** finds application for several other crops with the same modalities of use.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place. 
 Keep out of reach of children and animals

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 Properly dispose of packaging



FERTILCORN® 8



COMPOSITION


N 8

 HIGH AMOUNT
OF ORGANIC
NITROGEN

 ALLOWED IN
ORGANIC
FARMING

BIO

PACKAGING:

- 25 kg Bags on a 1500 kg pallet
- 500 kg Big Bags
- Bulk

CHARACTERISTICS:

Physical state: cylindrical-shaped homogeneous pellet with an average diameter of 3 - 4 mm and an average length of 5 - 7 mm.

Components: mixture of humified manure, feather meal, blood.

- **FERTILCORN® 8** is a nitrogenous organic fertilizer, with gradual-release Nitrogen of exclusively organic nature, particularly ideal for the fertilization of the most important horticultural crops with medium-long vegetative cycle (60 - 90 days), fruit crops and ornamental crops (flowers or green plants, both annual and multi-year ones.)

The product comes as dry, without powder, and it can be easily disintegrated in the soil. Mechanical distribution can quickly take place with any type of fertilizer distributor: in open field, localized on a 50 - 60 cm line, localized on the line in hoeing machine.

USAGE AS A NUTRIENT:

Autumn-winter period

Best results are obtained by spreading the product immediately before the last process by mixing it to the soil before seeding or before transplant; in particular, open field spreading must take place at a minimum depth of 2 cm and a maximum one of 15 cm; the usage on arboreal crops must

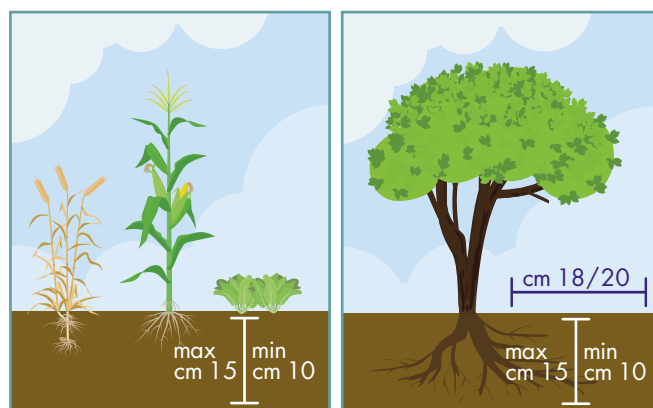
foresee a distance from the trunk of 18/20 cm and a depth of 10/15 cm.

In the case of fertilization on orchards covered with grass (spontaneous turf or reseeded among the lines), the product must be spread homogeneously on the surface; it can be useful to subsequently mulch the grass in order to speed up product dissolution.

Spring-summer period

The mineralization process starts with the rise of average temperature of air and soil, starting from 13° - 14° C, and it goes on in function of other environmental parameters: nature of the terrain (structure), rainfall trend, soil porosity, mechanical processes.

During spring sowing, the presence of organic Nitrogen (N) allows the coverage of nutritional needs over the vegetative cycle for about 90 days.



↓ AVERAGE CONTENT ON THE SUBSTANCE AS IT IS

Humidity max	Max 12%
Total organic Nitrogen (N)	8 - 8,5%
Total Phosphorus pentoxide (P ₂ O ₅)	1 - 1,5%
Total Potassium oxide (K ₂ O)	0,5 - 1%
Humic acids	4%
Fulvic acids	6%
Humified organic matter	61 - 68%
Organic Carbon (C)	31 - 34%
pH (indicative)	7
Specific weight	0,6 - 0,7 kg/l

↓ MICROORGANISMS (expressed in UFC/g, units forming colonies for gram of product)

Total aerobic bacteria load	1.365.000.00 UFC/g
Total anaerobic bacteria load	1.026.000.000 UFC/g

↓ MICROELEMENTS

Boron (B)	25 mg/kg
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DOSES AND MODALITIES OF USE IN kg/ha

ARBOREAL CROPS

Wine grape	800 - 900
Dessert grape	700 - 800
Apple tree, pear tree	700 - 900
Actinidia, cherry tree	700 - 1000
Peach tree, plum tree, apricot tree	700 - 800
Orange, mandarin, clementine, lemon	700 - 900

HORTICULTURAL CROPS

Tomato, eggplant, bell pepper	80 - 150 kg on 1000 m ² (greenhouse)
Cucumber, fennel, salad, chicory, celery	800 - 1000
Artichoke, carrot, cabbage	1000 - 1200
Onion, endive, spinach	1000 - 1200
Potato	800 - 1000
Strawberry	60 - 90 kg on 1000 m ² (greenhouse)

OPEN FIELD CROPS (BEFORE SEEDING)

Alfalfa, bean, clover	500 - 600
Rice	600 - 800
Straw cereals	600 - 700
Beetroot	800 - 1000
Rapeseed	800 - 900
Grain corn, waxy corn, sorghum	1000 - 1200

SOIL PREPARATION

4 - 6 kg of **FERTILCORN® 8** mixed with 1 m³ of loose soil, peat or terrain that has already been pre-constituted but not yet fertilized.

HOBBY USAGE

Lawn	Before seeding or coverage	80 - 120 g for m ²	Spread the product- roll- irrigate
Flower beds	Before transplant	50 - 70 g for m ²	Spread the product (even in a mixture with soil); bury - irrigate
Hedges, borders	During implant or in coverage	100 - 200 g for linear meter	Bury- irrigate
Bushes, shrubs	During implant or in coverage	0,5 - 2 kg/plant in function of plant dimension	Bury- irrigate

N.B. mentioned crops are indicative of each category; **FERTILCORN® 8** finds application for several other crops with the same modalities of use.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



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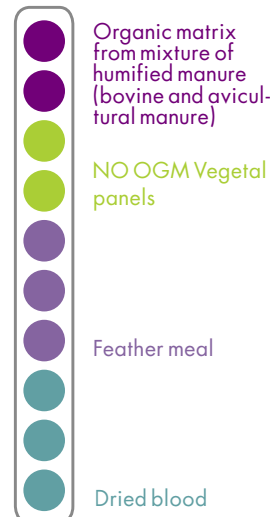


Properly dispose of packaging

FERTILCORN® 125



COMPOSITION



PACKAGING:

- 25 kg Bags on a 1500 kg pallet
- 500 kg Big Bags
- Bulk

Physical state: cylindrical-shaped homogeneous pellet with an average diameter of 3 - 4mm and an average length of 4 - 5mm.

Components: mixture of humified manure, vegetal panel, dried blood.

FERTILCORN® 125 is a nitrogenous organic fertilizer, with gradual-release Nitrogen whose nature is exclusively organic, particularly ideal for the fertilization of the most important horticultural crops with medium-long vegetative cycle (60-90 days), fruit crops and ornamental crops (flowers or green plants, both annual and multi-year ones).

Nitrogen release, as well as the release of microelements contained in the organic substances used in **FERTILCORN® 125**, is gradual and differentiated over time, since it is linked to biochemical processes of mineralization of the four different organic matrixes.

FERTILCORN® 125 comes as dry, without powder, and it can be easily disintegrated in the soil. Mechanical distribution can quickly take place with any type of fertilizer distributor: in open field, localized on a 50 - 60cm line, localized on the line below the row using the hoeing machine.

USAGE ON CEREALS:

Best results are obtained by spreading the product at the end of end winter, on the coverage of autumn-winter cereals during the phase of tillering. In particular, the nitrogenous

compounds deriving from "dried blood" confers a nearly immediate recovery to crop vegetation, which is then sustained with the gradual mineralization of other matrixes that follow it until earing.

USAGE ON ORCHARDS/VINEYARDS:

FERTILCORN® 125 distribution on orchards and vineyards (spontaneous turf or lawn reseeded between the lines) must take place at the end of winter or at the beginning of spring. In the case of grassing, the product must be spread homogeneously on the surface; it can be useful to subsequently cut the grass in order to speed up product dissolution.

USAGE ON HORTICULTURAL CROPS:

FERTILCORN® 125 is particularly ideal for the fertilization of horticultural crops that have been unweeded after mechanical row operations, which put the fertilizer near to the root system during expansion phase. The product is excellent if it is then watered with hose or sprinklers (aspersion).



FERTILCORN® 125 as it is



FERTILCORN® 125 lin water after 5 minutes

↓ AVERAGE CONTENT ON THE SUBSTANCE AS IT IS

Humidity (H ₂ O)	12 - 14%
Total organic Nitrogen (N)	11 - 11,5%
Total Phosphorus pentoxide (P ₂ O ₅)	1 - 1,5%
Sulphur trioxide (K ₂ O)	0,5 - 1%
Magnesium oxide (MgO)	0,5%
Sulphur trioxide (SO ₃)	0,5%

Humic acids	2%
Fulvic acids	3%
Organic matter	60 - 64%
Organic Carbon (C)	30 - 32%
pH (indicative)	6,5 - 7
Specific weight	0,7 kg/l

↓ MICROORGANISMS (expressed in UFC/g, units forming colonies for gram of product)

Total aerobic bacteria load	433.000.000
Total anaerobic bacteria load	343.000.000

↓ MICROELEMENTS

Boron (B)	25 mg/kg	Zinc (Zn)	150 mg/kg
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AVERAGE DOSES OF USE IN kg/ha

OPEN FIELD CROPS (COVERAGE)	
Alfalfa, clover, ryegrass	400 - 500
Straw cereals	300 - 400
Rapeseed/protein crops	300 - 400
Grain corn, waxy corn, sorghum	400 - 500

HOTICULTURAL CROPS	
Tomato, eggplant, bell pepper	80-150 kg on 1000m ² (greenhouse)
Cucumber, fennel, chicory, celery	400 - 600
Artichoke, cabbage	400 - 500
Onion, carrot, spinach	400 - 500
Potato, sunchoke	500 - 700
Strawberry	60 - 90 kg on 1000m ² (greenhouse)


ARBOREAL CROPS	
Dessert grape/vineyards	500 - 700
Apple tree, pear tree, orchards	400 - 600
Actinidia	500 - 700
Peach tree, plum tree, apricot tree, cherry tree	400 - 700
Orange, mandarin, clementine, lemon, citrus fruit	300 - 400

BACKGROUND FERTILIZATION ON NEW ARBOREAL IMPLANTS

100gr for m²; equal to 1000 kg for hectare.

SOIL PREPARATION

6-8 kg of **FERTILCORN® 125** mixed with 1 m³ of loose soil, peat or terrain that has already been pre-constituted but not yet fertilized.

↓ HOBBY USAGE					
	Lawn/grass mats	Before seeding or coverage	80 - 120 g/m ²	Spread the product-roll- irrigate	
	Flower beds	Before transplant	50 - 70 g/m ²	Spread the product (even in a mixture with soil); bury- irrigate	
	Hedges, borders	During implant or in coverage	100 - 200 g/ for linear meter	Bury- irrigate	
	Bushes, shrubs	During implant or in coverage	0,5 - 2 kg/plant in function of plant dimension	Bury- irrigate	

N.B. mentioned crops are indicative of each category; **FERTILCORN® 125** finds application for several other crops with the same modalities of use.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place. 
 Keep out of reach of children and animals

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 Properly dispose of packaging

SULFOSPRINT®

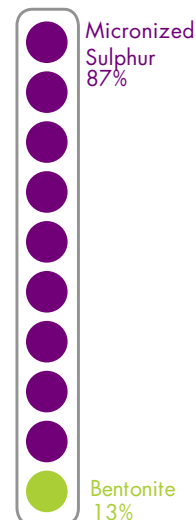
GRANULATE

SULPHUR
FERTILIZER
WITH RAPID
ACIDIFYING
RESPONSE

PERMITTED IN
BIO
AGRICULTURE



COMPOSITION

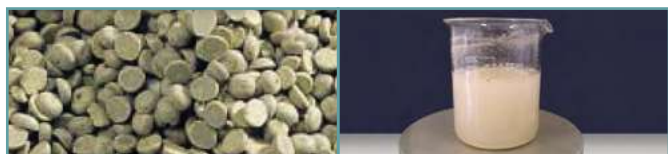


PACKAGING:

- 25kg bag on a 1500kg pallet or on a 600kg mini pallet
- 500 kg Big Bags

SULFOSPRINT® is a Sulphur-based corrective-nutritional fertilizer, whose exclusive formula in granules allows it to be easily spread on the soil, in open field or in localized form, and an equally easy disintegration in presence of humidity.

As a proof of this, it is recommended to take a small part of it and to dissolve it in water; after about an hour, the product will be completely disrupted.



SULFOSPRINT® as it is and dissolved in presence of water

CORRECTIVE

The high amount of Sulphur has the aim to create in the area of root development a gradual decrease of the pH value in the soil, to ease the absorption of all the other nutritional elements that otherwise would be immobilized by the calcareous component in the terrain.

Sulphur is a corrective for alkaline and saline soils.

The majority of arboreal, herbaceous, horticultural and flower crops need optimal pH values ranging from 5 and 7, whereas terrains are predominantly alkaline.

Frequently, microelements deficiencies are not caused by a lack as such, instead by their difficulty in being assimilated as

a result of high soil alkalinity. In these cases, Sulphur used as a pH corrective makes Nitrogen, Phosphorus, Potassium and microelements (Iron, Manganese, Zinc etc.) promptly available.

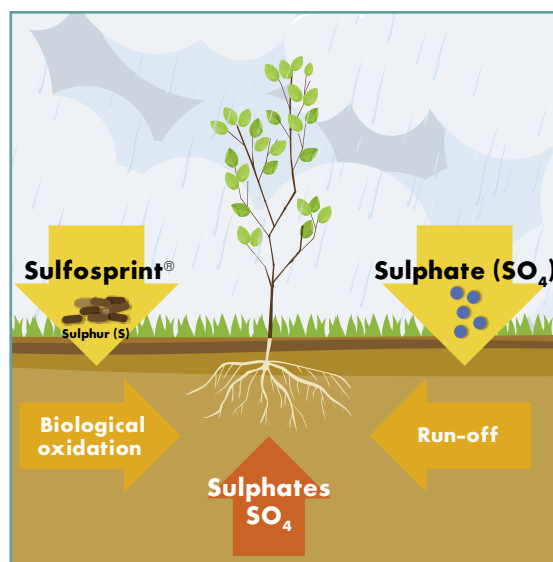
NUTRITIONAL

Please note that tomato, cabbage, onion, garlic, strawberry and other crops like the presence of Sulphur also as a nutrient.

This element covers an important role in berry composition and in its qualitative characteristics. Microorganisms contained in the soil work out Sulphur oxidation, which is gradually transformed into sulphate and for this reason absorbed by the root system.

It should be noted that its action during the vegetative cycle of crop growth is gradual.

SULFOSPRINT® overall effect results in higher availability of nutritional elements, better efficiency of the whole fertilization plan, higher and better productive results.



CHARACTERISTICS

Composition	Elementary Sulphur containing clay (bentonite)	Dimensioni	Width 3-3,5mm Height 1,5mm
Title	Elementary Sulphur (S) 87% as Sulphur trioxide (SO ₃) 217,5%	Umidità al confezionamento	Max 0,5%
Appearance	Lenticular shape	Tempo di disaggregazione in acqua	About 30/60 minutes
Smell	Characteristic smell of Sulphur	Peso specifico	1,14 kg/l
pH	5 - 6		

AVERAGE DOSES OF USE IN kg/ha

OPEN FIELD CORRECTIVE ACTION

Background correction 600 - 800

Maintenance correction 300 - 500

For vineyards, orchards, citrus groves, olive groves

it is recommended to distribute the product localized along the row after autumn harvest or at the end of winter and to slightly bury it; the quantitative advised is 0,5 - 1,5 kg for each plant.

NUTRITIONAL ACTION

Crops which synthesize few proteins

Wheat, barley, potato, corn, sugar beet 200 - 300

Crops which synthesize few proteins

Alfalfa, clover, field bean, pea, bean, soy 300 - 400

Crops which synthesize many proteins

Rapeseed, cabbage, garlic, onion, chicory, celery, industrial tomato, table tomato 400 - 500

N.B. mentioned crops are indicative of each category; **SULFOSPRINT®** finds application for several other crops with the same modalities of use.

WARNING: based on described characteristics and on its physical state, for this product it is recommended to use gloves, mask and protective glasses (as if it were a normal Sulphur or Copper distribution). **Any animal must be kept away from treated areas for at least 4-5 days.**

FOR PRODUCT DISTRIBUTION:



Distributed on the row before **industrial tomato** transplant, it sanitizes the area of root development; it also helps coloring and the subsequent berry conservation.



Distributed under the hose for **melon/watermelon**, it facilitates the absorption of all the nutritional elements given through fertilization.



Distributed before **autumn-winter cereals** seeding, it contributes to the increase of specific weight in the grain with "high quality proteins".

Distributed in the seed grove of the **potato**, it facilitates soil disinfection and mitigates the accumulation of nitrates in the tuber.



Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



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Properly dispose of packaging



CRYSTALFER® PLUS

IRON AND SULPHUR BASED SOAKING AGENT

15%
Fe

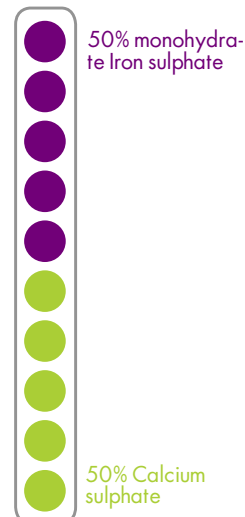
PRODUCT FOR
PROFESSIONAL
USE



PERMITTED IN
BIO
AGRICULTURE



COMPOSITION



PACKAGING:

- 5 kg bucket on a 500 kg pallet
- 25 kg bag on a 1500 kg pallet
- 500 kg big bags
- Bulk

CHARACTERISTICS:

Physical state: powder product.

Iron (sulphate) based fertilizer with stabilizing additive; molecule of MONOHYDRATE Iron sulphate.

CRYSTALFER® PLUS represents an absolute novelty in the sector of fertilization aimed to the intake of soluble Iron. It is a new formula containing soluble Iron, usable for the application of soluble Iron directly on the soil (distributed with fertilizer distributor). The product is not suitable for the usage in a solution or through hose (fertigation).

CRYSTALFER® PLUS is stable over time, even for several months in its packaging; it does not oxidize and does not lose its chemical and effect characteristics.

The product does not emit unpleasant odors and does not release humidity in warehouses; it can be mixed with other microgranular, granular and sliver fertilizers. The product releases the element Iron gradually over the crop vegetative cycle; it is recommended to apply it during spring-summer.

CRYSTALFER® PLUS is an acidifying-calcifying-soaking agent. It is possible to use it in coverage on fruit crops and it can be used to increase stress resistance.

CRYSTALFER® PLUS prevents and heals ferric chlorosis from its first appearance: well distinct from the central green rib-

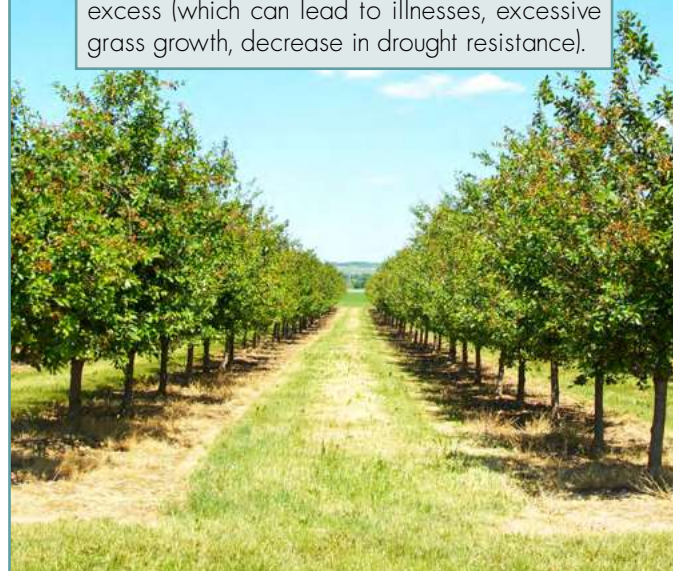
bing, with low bud development and flower coloring.

This phenomenon is a consequence of effective Iron lack in the soil or of Iron unavailability in root absorption, caused by excessive limestone presence and high pH values.

CRYSTALFER® PLUS acidifies and fixes alkaline soils by reducing the pH value of the solution circulating in the soil; indeed, it also provides high quantities of Sulphur trioxide SO_3 .

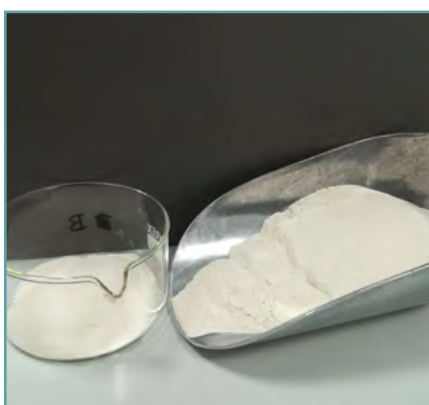
FRUIT PLANTS AND TREES INSERT

It determines in a few hours a color improvement without the contraindications of Nitrogen excess (which can lead to illnesses, excessive grass growth, decrease in drought resistance).



AVERAGE CONTENT ON THE SUBSTANCE AS IT IS

Iron (Fe) soluble in water	15%	Total Sulphur trioxide (SO ₃)	43%
Sulphur trioxide (SO ₃) soluble in water	21%	pH value	4,1
Specific weight	1,3 kg/l	Heavy metals: Pb Heavy metals: Cu	< 0,5 ppm
Total Calcium oxide (CaO)	15%	Other absent metals or traces	/








USAGE AS A NUTRIENT

Usage must take place directly on the soil with broadcaster spread (manually or through mechanical means); otherwise, the product can be deposited plant by plant under the foliage, in the case of fruit plants or ornamental green plants: spread on the soil and then bury at a minimum depth of 4 cm and a maximum of 15 cm; this way, it performs a nutritional or corrective action depending on the doses distributed for unit of surface.

If fertilization is performed on orchards covered with grass (spontaneous turf or reseeded between the lines), the product must be distributed homogeneously on the surface; it can be useful to cut the grass in order to speed up product dissolution. Recommended doses are usually sufficient to prevent and heal Iron deficiencies. In extreme cases (high presence of active limestone in the soil, basic pH), it might be necessary to intervene with more applications starting from the beginning of spring.

After each application on the soil, go on with slight burial and irrigation in order to moisten the product.

DOSES AND MODALITIES OF USE IN kg/ha

Fruit trees	0,4 kg - 0,8 kg for each plant, in function of plant dimension	Strawberries, raspberries, blueberries, blackberries	0,2 kg - 0,3 kg each plant
Vineyard	0,5 kg - 0,6 kg each plant	SOIL PREPARATION	
Turfs, flower beds, green areas	40 - 50 g for m ²	Accurately mix 50 g - 100 g for m ³ of peat	
FLOWERS		    	
Camelias, hydrangeas, azaleas, cyclamen	30 - 40 g for m ²		

N.B. mentioned crops are indicative of each category; **CRYSTALFER® PLUS** finds application for several other crops with the same modalities of use.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

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Properly dispose of packaging



CRYSTALFER®

IRON SULPHATE (WDG)

97,90%
 $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$

PRODUCT FOR
PROFESSIONAL
USE



ALLOWED IN
ORGANIC
FARMING

BIO



COMPOSITION



100%
Pure Iron Sulphate heptahydrate

PACKAGING:

- 5 kg bucket on a 500 kg pallet
- 25 kg bag on a 1500 kg pallet
- 500 kg big bags
- Bulk

CHARACTERISTICS:

Physical state: Physical state: light blue crystalline product = $\text{Fe-SO}_4 \cdot 7\text{H}_2\text{O}$ (Iron Sulphate heptahydrate) pure. The product is always packaged when it's fresh; if stored and never removed, after about 60 days it can compact reversibly; shake in order to make it fluid.

It is indeed sufficient to move it and it will go back to being perfectly usable. In the case of longer storage, it is recommended to buy **CRYSTALFER®** fluent along with silicates, that will render it softer for several months.

CRYSTALFER® fluent is not suitable for fertigation use, since silicates are not soluble.

It can be mixed with other crystalline products (as long as they're dry) before its use on the crop, as Iron supplement on classic NPK formulas.

Its main function is the intake of Iron^{2+} , directly assimilable from plant roots, guaranteeing the green coloring.

Anyway, it also performs important "collateral" actions: it acidifies the soil, since it is rich in SO_3 (Sulphur trioxide); it results as caustic effect in the usage against moss in lawns and it limits moss development. In industrial use, it can help water depuration, since it comes as flocculant agent for several compounds, that are then distanced through filtration.

USAGE

CRYSTALFER® can be used on all crops:

- **Directly on the soil in crystalline form**, then irrigation must follow: it can be left on the surface to facilitate absorption. Or it can be distributed and buried at 10 - 15cm of depth and then irrigated (even a day after if necessary).



- **Dissolved in water in a solution of 300 - 500 g/hectoliter of water (3 - 5 g/l)** and then distributed through fertigation; if otherwise it is mixed with other water-soluble formulas, its concentration will depend on the type of product that is obtained.



- **distributed as "dry"** on the lawn with a dose of about 50 - 70g/m² on the side that is suffocated by the moss and left to "rest"; then, proceed with a light raking.



WARNING Pay the highest attention during usage: the product can stain when in contact with surfaces such as marble, ceramic, glass, leather, terracotta, etc.

↓ AVERAGE CONTENT ON THE SUBSTANCE AS IT IS

Iron Sulphate heptahydrate $\text{FeSO}_4 \cdot 7 \text{H}_2\text{O}$ (100% completion is given by crystallization water)	97,90%	Humidity (H_2O)	0 - 1%
Iron (Fe) soluble in water	19%	pH value	2,5 - 3
Sulphur trioxide (SO_3) soluble in water	28%	Specific weight	0,9 - 1 kg/l

WARNING: based on described characteristics and on its physical state, for this product it is recommended to use gloves, mask and protective glasses (as if it were a normal Sulphur or Copper distribution).

Any animal must be kept away from treated areas for at least 4-5 days.

FOR PRODUCT DISTRIBUTION:



CRYSTALFER® usage to prevent-heal ferric chlorosis and to reduce pH value:

ORCHARDS: in spring and summer, distribute 0,5 - 2 kg for each plant at the base of the tree stump, in function of dimension and level of ferric chlorosis. Immediately irrigate if the product is left on the surface; irrigate after some days if it is buried, at maximum 15 cm of depth.

Or it is possible to dissolve it in water at a concentration of 300 - 500 g/100 l of H_2O and distribute through fertigation implant under the foliage: a nozzle holds 70 l of water/hour from which about 210 - 350 g/hour of product for each plant. Proceed with at least 2 applications and check crop condition.

GRASS MATS: in spring and summer, distribute 50 - 70 g/m² on the surface of the turf and irrigate; the product will dissolve on its own and penetrate the soil without the need of further operations. If it is spread to combat musk, leave it on the surface without irrigation and then slightly rake the area.

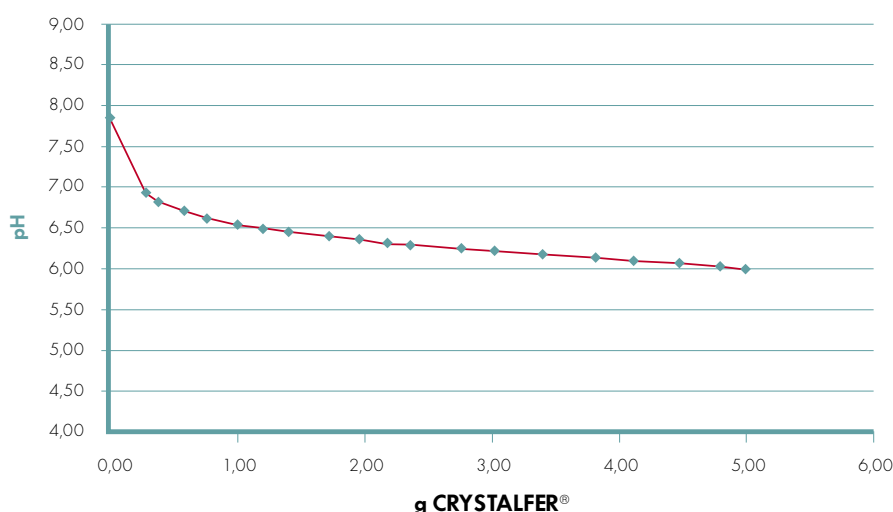
POT FLORICULTURE: soils usually already have acid reactions; but if you dispose of a substrate with low buffering capacity (it depends on its composition and quality), the pH value can increase, especially when hard water is used. For

this reason, it is possible to proceed with the acidification process by mixing **CRYSTALFER®** with soil in the quantity of 1 - 2 teaspoons in a vase with a diameter of 20 cm. With different diameters, proceed proportionally.

AS A DISINFECTANT: it prevents and slows down the deterioration process of wooden poles sustaining the plants (splints) against fungi and lichen: dip the poles bark-free in a solution with 15% of **CRYSTALFER®** (15 kg on 100 l of H_2O). Proceed the same way and brush on injuries from pruning cuts in order to combat potential infections.

WATER ACIDIFICATION: if the water pH value is 8 and you want to acidify it to reach a pH level of 6 for different purposes (fertigation, aqueous solutions for other purposes), gradually dip **CRYSTALFER®** and measure with a pH-meter. Experience determines that 5 g/l = 500 g/100 l = 5 kg/1000 l or m³ are necessary. The solution will take a yellowish coloration; it is sufficient to filter it to obtain a transparent solution. In this way, the Iron is pushed away but the pH remains acid.

WATER TREATMENT WITH CRYSTALFER®



Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



Keep out of reach of children and animals

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Product should not be directly in contact with plant's roots. Only for professional use.



Properly dispose of packaging

CRYSTALMONIO®

WATER SOLUBLE AMMONIUM SULPHATE FOR FERTIGATION

 CRYSTALLINE
 FORM

 PRODUCT FOR
 PROFESSIONAL
 USE

 FOLIAR
 PRODUCT


PACKAGING:

- 25 kg bag on a 1050 kg pallet
- 500 kg big bags

CRYSTALMONIO® is a product based on pure and completely soluble Ammonium Sulphate. It has a crystalline form and its usage is "universal" for all crops, at the beginning and in the middle of the vegetative cycle. Its nutritional contents are given from Nitrogen that is exclusively ammoniacal $\text{NH}_3=20\%$ and from Sulphur in the form of Sulphur trioxide $\text{SO}_3=60\%$.

Its main modality of use is to be dissolved in water and to form a fertigation formula. But it also finds usage with the direct spreading on the soil and with following irrigation.

MAIN CHARACTERISTICS:

Crystalline water-soluble Ammonium Sulphate

Appearance: translucent crystal powder

20% ammoniacal Nitrogen (NH_3)

60% Sulphur trioxide (SO_3)

Specific weight: 1,0 kg/l.

By using **CRYSTALMONIO®**, it means to achieve the following goals:

1) To provide the crop with quick-effect nitrogenous nutrition. It is recommended not to apply high quantities for each operation, since although ammoniacal, mineral Nitrogen can be partly lost due to leaching or volatilization. This phenomenon depends a lot on the type of soil in which the fertilization takes place, from the % of organic matter that is present, from the quantity of water distributed.

2) To add Sulphur as a nutrient. This is an important feature, most of all for some families of horticultural crops whose aromas, flavors and smells are tied to molecules which contain the element Sulphur: onion, garlic, leek, cabbage, kale. In the same way, strawberry, industrial tomato and table tomato are also positively affected but that.

3) To use a guaranteed product. In terms of: raw material purity, absence of heavy metals. It does not present particular contraindications to manipulation done by the user.

4) To determine an acidifying action to the soil. The high presence of SO_3 creates in the spreading area an acid reaction which facilitates the absorption of Phosphorus and other microelements through the roots. Furthermore, is used when it is dissolved in water, it leads to the acidification of the solution (pH value in function of possible concentration; watch the chart below).

Solution concentration	pH
0,1% solution (100 g of product in 100 l H_2O)	4,3
0,2% solution (100 g of product in 100 l H_2O)	4,1
0,3% solution (100 g of product in 100 l H_2O)	4,0
0,4% solution (100 g of product in 100 l H_2O)	3,7
0,5% solution (100 g of product in 100 l H_2O)	3,4



CRYSTALMONIO® water solubility check; maximum concentration possible: 740 g/H₂O at 25°C

The product can be mixed with fluid organic products (AMINOSPRINT® N8 and AMINOSUPER® N6,5 FOMET SpA brand) and with other mineral fertilizing products (Urea, Ammonium Nitrate, Phosphoric Acid, monoammonium Phosphate, Magnesium Sulphate, Potassium Sulphate), apart from the ones based on Calcium, with the aim to prevent CaSO₄ precipitations.

USAGE DOSES:

Use **CRYSTALMONIO®** in average quantities of about 25 - 40 kg/ha on horticultural crops/flower crops in open field; equal to 2,5 - 4,0 kg/1000 m² in a greenhouse. Intervene with 2 fertigation processes at a distance of about 10 - 12 days, depending on climate and on the vegetative development of the crop.

Average dilution is about 2 - 3 g/l and it can also happen in a mix with fluid organic products (see above), of which 1,5 - 2 g/l can be added. The organic product must be added in the second place, with the stirrer working at a moderate speed (to avoid the "foam effect").

The product can have an "universal" usage also on lawns, garden plants, green borders and ornament borders; in these cases it can also be distributed directly on the soil, 30 - 50 g/m² with following irrigation.



Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

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Properly dispose of packaging



CRYSTAL-NK®

WATERSOLUBLE POTASSIUM NITRATE FOR FERTIGATION

completely
soluble
in water

PRODUCT FOR
PROFESSIONAL
USE



COMPOSITION



100%
Potassium
nitrate

PACKAGING:

- 25 kg Bag on a 900 kg pallet
- 500 kg Big Bags

CRYSTAL-NK®: the crystal form can be easily dissolved and it perfectly adapts to the everyday use of fertigation systems and to foliar application as well. It is compatible with other watersoluble fertilizers and with most pesticides, even though it is recommended to use it separately when it comes to high concentrations.

Fertigation with **CRYSTAL-NK®** improves radical absorption of Potassium and Nitric Nitrogen, in a promptly available form.

magnesian fertilizers in the preparation of nutritive solutions. Thanks to its high solubility, **CRYSTAL-NK®** facilitates the distribution and it appears compatible with the most modern irrigation systems.

DOSAGE OF USE

FERTIGATION: the average dosage is 40 - 80 kg/ha for every application, with at least two interventions per year. The average concentration is 0,5 - 1,5 g/l.

In order to facilitate the preparation of condensed solutions, it is recommended to dissolve not more than 15 - 20 kg/100 l.

The product can have an "universal" use also on lawns, garden plant, edgings and ornament bordures; in this case, it can also be distributed directly on the grass with a dosage of 30 - 50 g/m² with following irrigation.



CRYSTAL-NK®

PHYSICAL APPEARANCE: solid crystalline white formulation. It is a fertilizer for fertigation and foliar treatments, for every kind of crop. For dosage and limitations of use, please check the label.

Foliar distribution of **CRYSTAL-NK®** allows a remarkable increase of qualitative and quantitative parameters of production: it enhances sugar content, mechanical resistance and manipulation. It also helps storing extra reserve substances in the plant.

CRYSTAL-NK® can be mixed with nitrogenous, phosphatic and



CRYSTAL-NK®

CHARACTERISTICS:

- Completely watersoluble
- Maximum level of concentration in nutritive elements
- Potassium nitrate is perfectly compatible and mixable
- It removes risks of burns or local drying up
- It is possible to obtain better production in saline and/or calcareous soils
- The absorption of Chlorine (Cl) and Sodium (Na⁺) in the crops is limited or prevented
- Optimal usage of water in the coltures
- Prompt nutritional action, also in extreme situations
- Early and strong crop development, improvement in quality and quantity of production
- Nitric Nitrogen (NO₃) doesn't undergo lacks caused by volatilisation; easy distribution
- Maximum nutritional efficiency
- Improvement in the assimilability of microelements and Phosphorus
- Maximum assimilability of NK nutritive elements
- There is no radical phytotoxicity with Potassium Nitrate
- Potassium Nitrate prevents the increase of ground salinity

**PRODUCT ANALYSIS**

PARAMETERS	TYPICAL	MIN.	MAX.
Total Nitrogen (N)	13,0 p/p%	12,8 p/p%	-
Nitric Nitrogen (N-NO ₃)	13,0 p/p%	12,8 p/p%	-
Potassium oxide (K ₂ O) soluble in water	46,0 p/p%	45,4 p/p%	-
Potassium (K) soluble in water	38,2 p/p%	37,7 p/p%	-
Insoluble residue	<350 ppm	-	1000ppm
apparent density	1,0 g/cm ³	0,9 g/cm ³	1,2 g/cm ³

CONCENTRATION (% p/v)							
	0,05	0,1	0,15	0,2	0,3	1,0	5,0
pH	5,78	5,84	5,87	5,97	6,00	6,09	6,50
EC (mS/cm) a 20° C	0,7	1,40	2,10	2,90	6,10	11,60	58,2

CE NUMBER 23 1-8 18-8

CAS NUMBER 77 57-79-1

H272 - can aggravate a fire; oxidiser

PRECAUTIONARY STATEMENTS:

P210 - keep away from sources of heat, hot surfaces, sparks, open flames. Do not smoke**P220** - keep away from clothes and other inflammable materials**P221** - take precautions to avoid mixing it with other chemical products or inflammable materials**P280** - wear protective gloves and protect eyes/face**P370 + P378** - in case of fire: use a powder or carbon dioxide fire extinguisher**P501** - dispose of the product/container according to the current legislation

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.



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Properly dispose of packaging

CRYSTAL-NITRO®

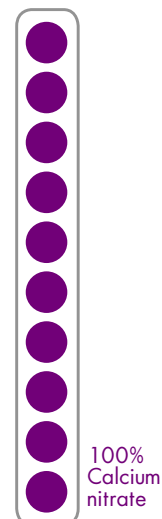
WATER-SOLUBLE CALCIUM NITRATE FOR FERTIGATION

completely
soluble
in water

PRODUCT FOR
PROFESSIONAL
USE



COMPOSITION



PACKAGING:

- 25 kg Bag on a 1050 kg pallet
- 500kg Big Bags

OVERVIEW: CRYSTAL-NITRO® is a high solubility salt, free from residues and impurities; it achieves the maximum rate of Calcium and Nitrogen absorption, because these elements carry a synergic action.

The high Nitrogen availability gives the culture a rapid and useful development, whereas Calcium in the soil unites the binding and colloidal function to the ability of rendering stable the structure of clayey grounds.



CRYSTAL-NITRO®

BENEFITS AND GOALS

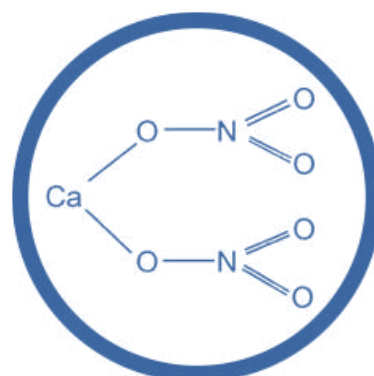
- nutritional action in Nitrogen and Calcium;
- excellent conservation of fruits and material consistency;
- nitrogenous nutrition guaranteed in extreme situations;
- revitalizing action.

Calcium nitrate CE fertilizer

Total Nitrogen (N)	15,5%
Nitric Nitrogen (N)	14,4%
Ammoniacal Nitrogen (N)	1,1%
Calcium oxide (CaO) soluble in water	26,5%

INSOLUBLE RESIDUE.....3000ppm

APPARENT DENSITY (20°C).....1,05 g/cm



CRYSTAL-NITRO®

- in fruit crops during the phase of pre/post fruit set; early start of fruit development.
- in the phases of post transplant or emergency in order to reach an excellent development and rooting.
- if a prompt action is desired, in order to avoid belated nitrogenous availability.

WATER SOLUBILITY					
water T°	0	10	20	30	40
CRYSTAL-NITRO® (g/ 100 g H ₂ O)	91,5	115,7	142,0	165,0	192,0

pH AND CONDUCTIVITY					
Concentration (%p/v)	0,1	0,2	0,3	1,0	5,0
EC (mS/cm) 20° C	1,25	2,32	3,42	9,90	39,80
pH 20°C	5,9	6,20	6,48	6,90	7,20

**AVERAGE DOSAGE OF USE**

CROP	DOSAGE
POTATOES	150+250 gg/ha
TOMATOES	200+300 gg/ha
APPLES/PEARS	100+200 gg/ha
CITRUS FRUITS/ARBOREAL CROPS	250+500 gg/ha
HORTICULTURAL CROPS/TOBACCO	250+500 gg/ha

Abovementioned dosages have indicative value and can vary in relation to pedoclimatic characteristics typical of every area (fertility: chemical, physical and biological; rainfall and temperature).

NUMBER CAS. 15245-12-2

HAZARD STATEMENTS

H302 - harmful if ingested

H318 - causes severe eye injuries

PRECAUTIONARY STATEMENTS

P264 - carefully wash hands after using the product

P270 - do not eat, drink or smoke while using the product

P280 - wear gloves/ protective clothing/ protect your eyes and your face. Use eye protection.

P305+P351+P338 - IN CASE OF EYE CONTACT

Accurately rinse eyes for several minutes: Remove eventual contact lens if possible.

Keep rinsing.

P310 - immediately call a doctor or a POISON CONTROL CENTER

P301+P310 - in case of ingestion: if you see sickness, call a POISON CONTROL CENTER or a doctor. Rinse your mouth.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

ATTENTION

Keep in a sheltered dry place.



Keep out of reach of children and animals

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Properly dispose of packaging



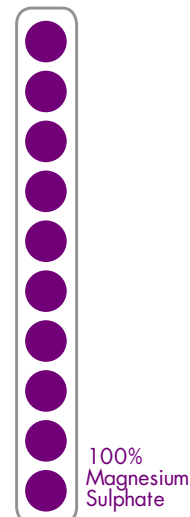
CRYSTALMAG®

totalmente
solubile in
acqua

PRODOTTO
PER USO
PROFESSIONALE



COMPOSITION



PACKAGING:

- 25 kg bag on a 1000kg pallet

CHARACTERISTICS:

CRYSTALMAG® is characterized by a high concentration of Magnesium and Sulphur, as well as maximum purity in its components.

- acid formula in water;
- it can be mixed with most pesticides, aside from Copper-derived products. It cannot be mixed with Calcium-based products and in some cases with Phosphorus;
- prompt assimilation, both through the roots and through the leaves;
- use water that is not too hard and/or rich in Calcium and Potassium;
- completely water-soluble, prompt assimilation both through the roots and through the leaves;
- acid reaction in aqueous solution;
- it can be mixed with other water-soluble fertilizers, aside from the ones containing Calcium and Phosphorus;
- its special crystalline granulometry prevents granules compacting and simplifies product usage;
- optimal photosynthetic activity, prevention and treatment of Magnesium deficiencies;
- in grapes improve the sugar concentration.

	pH (25°C)	Ec mS/cm (25°C)
1 gram/litre (% weight/volume)	5,9	0,84
2 gram/litre (% weight/volume)	5,8	1,42
3 gram/litre (% weight/volume)	5,8	2,04
10 gram/litre (% weight/volume)	5,8	5,28
50 gram/litre (% weight/volume)	5,7	18,8

Water temperature (°C)	0	10	20	30	40
Solubility (g/100 H ₂ O)	24,0	28,2	33,7	39,9	44,5

**↓ AVERAGE CONTENTS ON
THE SUBSTANCE AS IT IS**

Magnesium Sulphate (MgSO_4)	16+32	Sulphur trioxide (SO_3)	32%
Magnesium (Mg)	16%	Sulphur trioxide (SO_3) soluble in H_2O	13% S
Magnesium oxide (MgO) soluble in H_2O	9,6% Mg		

CRYSTALMAG® is a water-soluble Magnesium Sulphate heptahydrate, in crystalline form. Its high purity allows use both in fertigation and leaf treatments.

CRYSTALMAG® is important during the phase of plant growth and immediately after flowering, that is in critical moments due to Magnesium deficiency.

FERTIGATION: during the preparation of stock solutions, it is necessary to minimize the mixture with Phosphoric acid, MAP and MPK, with the aim of avoiding the formation of precipitates.

It is possible to obtain a reduction in the maximum solubility of the Potassium Nitrate, by mixing it with a Potassium Nitrate.

CRYSTALMAG® cannot be mixed with Calcium and Phosphorus based products.

LEAF FERTILIZATION: it must be used as a precautionary measure rather than to heal, since it has a lower rate of solubility and efficiency in leaf absorption.

The correct concentration to use is 0,5 - 1% with 1 - 2 treatments for each specific phenological stage, using the so-called "normal" water volumes.

On grapevine and citrus fruits, concentration can be increased to 1 - 2%.



CRYSTALMAG®

WARNING Apply the utmost care during usage: the product can stain when in contact with surfaces such as marble, ceramics, glass, leather, terracotta, etc.

CRYSTALMAG® does not underline specific contraindications during the phase of mixing with traditional water-soluble fertilizers (aside from Phosphate fertilizers, fertilizers containing Calcium) and pesticides, aside from copper products and the ones with high alkaline reaction; in case of doubt, it is recommended to make a little blending to verify stability and potential sensibility in the crops.

The responsibility of the producer is explicitly restricted to guarantee the quality of the product in its original packaging.

Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

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Keep out of reach of children and animals

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Properly dispose of packaging

HORGAMIN® LINE

GRANULAR ORGANO-MINERALS

Delta has drawn up a line of granular organo-mineral fertilizers, hence the name **HORGAMIN®**.

The name encapsulates the concept of union of two elements, an organic one and a mineral one, with the aim of enhancing its best characteristics for the crop.

All products remain in the soil in absorbable forms for more time compared to a simple mineral; therefore, root absorption is facilitated. This aspect is particularly noticeable in the soil when it comes to phosphates: organo-mineral fertilization slows down Phosphorus insolubility as compared with mineral fertilization, and it also reduces potential leaks in the water in the soluble forms.

THE MAIN QUALITIES OF THE HORGAMIN® LINE CAN BE SUMMED UP AS FOLLOWS:

- presence of slow-release natural organic Nitrogen: if the granule is positioned near the crop roots, the organic fraction allows a nitrogenous "reserve" which is gradually mineralized in function of agronomic-environmental factors. The content in all formulas is at least 2% of organic Nitrogen (N).
- higher assimilability of the elements contained in the specific formula rather than an equal title of exclusively mineral nature: this result is achieved thanks to the higher efficiency of use from the plant. Ultimately, fewer quantities of product are wasted in the soil.
- it reduces to the minimum all the leaks in depth caused by percolation and the leaks on the surface due to leaching: it ensures a more rational economic expense and a positive impact on groundwater.
- optimal granule processing: average dimension of 1,5-3mm, such as to allow a uniform distribution in open field, on the line with tacker/tiller, during seeding in seeds container of the fertilizer (no micro-tracker).

AGRONOMIC DIRECTIONS:

- use before seeding, in function of the selected title, on all crops, with spreading both in open field and on the line, to guarantee a balanced nutrition from the very beginning of the productive cycle.
- it is good if the product is buried at 5 - 15cm of depth, in function of the crop type and of the root development it reaches during the development cycle.
- in case of arboreal crops, perform a fertilization on the line for young crops (max. 2 years old); product application can be done in open field when it comes to adult crops; in case of arboreetums covered with grass, it is recommended to mow the grass after product spreading in order to facilitate hydration and dissolution.
- after each distribution, it is better to proceed with a slight irrigation to hydrate the product.
- all products contained in the **HORGAMIN®** line can be mixed during soil preparation (both for professional use and for hobby use) with 4 - 6kg for m³ of non-fertilized peat/soil.

ALL PRODUCTS OF THE HORGAMIN® LINE ARE DISTRIBUTABLE:



on the line



in open field



with seed drill

HORGAMIN® LINE

with Potassium entirely from Sulphate - BTC

AVERAGE CONTENTS ON THE SUBSTANCE AS IT IS

Total Nitrogen (N).....	10%
Organic Nitrogen (N).....	2%
Ammoniacal Nitrogen (N).....	7%
Nitric Nitrogen (N).....	1%
Total Phosphorus pentoxide (P ₂ O ₅).....	10%
Phosphorus pentoxide (P ₂ O ₅) soluble in ammonium citrate and water.....	9%
Phosphorus pentoxide (P ₂ O ₅) soluble in water.....	8%
Potassium oxide (K ₂ O) soluble in water.....	15%
Magnesium oxide (MgO) soluble in water.....	2%
Sulphur trioxide (SO ₃) soluble in water.....	28%
Organic Carbon (C).....	7,5%
pH.....	5-6



PACKAGING:

- 25 kg bag - 1500 kg pallet
- Big Bag of 500 kg
- Bulk

PRINCIPAL COMPONENTS

Organic components: skins and animal hair

Mineral components: urea, NP mineral diammonium phosphate fertilizer, ammonium sulphate, simple superphosphate, potassium sulphate; containing potassium only from sulphate.

DOSES AND USAGE APPLICATION

Arboreal crops

New implant (open field).....	500-700 kg/ha
New implant.....	40-60 g/plant in hole
2-3 year-old plants (in the row).....	300-400 kg/ha
Adult plants (open field).....	500-800 kg/ha

Horticultural crops

Open field crops.....	500-700 kg/ha
Crops in greenhouse.....	40-60 kg/1000 m ²
IV variety crops (baby leaf).....	40-60 kg/1000 m ²

Forest-gardening-hobby

Planting and environmental recovery.....	40-80 g/plant
Green plants in the garden.....	40-80 g/plant
Hedge-border.....	50-60 g/m straight line
Lawn.....	50-60 g/m ²
Flourished flowerbed.....	50-60 g/m ²
Re-potting soil.....	4-6 kg/m ² soil

CHARACTERISTICS

Presence of organic natural Nitrogen with slow-release rate: if the granule is positioned near the roots, the organic fraction creates a nitrogenous "storage" which gradually mineralizes itself in function of agronomic-environmental factors.

The content of organic Nitrogen (N) in every formulation of the **HORGAMIN® LINE** is at least 2%.

There is higher assimilability of the elements contained in the specific formulation than in an exclusively mineral title of nature: this result is obtained through better efficiency of usage from the plant. Ultimately, less product is wasted on the ground. The product reduces to its minimum rate the lacks in depth of percolation and of surface for leaching: it ensures a more rational financial expense and a positive impact on underground groundwater.

It is perfect for granule production: average size 1,5 - 3 mm, adequate to allow a certain and uniform open field distribution, on the line with tracker, during seeding in hopper of fertilization (no micro-tracker).

Abovementioned dosages have indicative value and can vary relation to pedoclimatic characteristics of every area (fertility: chemical, physical, biological; rainfall and temperature). Furthermore, they must be inserted in the fertilization plan.

All doses are indicative and may be variable depending from the climate and soil characteristics (temperature, pedology, etc.) The dosage must be insert inside a fertilization program.

Keep in a sheltered dry place.



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Only for professional use.



Properly dispose of packaging



ARIES®

NP 10.20+20SO₃+0,06Zn

HORGAMIN® LINE

Special for cereal crops and horticulture seeding

AVERAGE CONTENTS ON THE SUBSTANCE AS IT IS

Total Nitrogen (N).....	10%
Organic Nitrogen (N).....	2%
Ammoniacal Nitrogen (N).....	7%
Nitric Nitrogen (N).....	1%
Total Phosphorus pentoxide (P ₂ O ₅).....	20%
Phosphorus pentoxide (P ₂ O ₅) soluble in ammonium citrate and water.....	18%
Phosphorus pentoxide (P ₂ O ₅) soluble in water.....	16%
Sulphur trioxide (SO ₃) soluble in water.....	20%
Organic Carbon (C).....	7,5%
pH.....	6-7

CONTAINS SULPHUR AND ZINC

PACKAGING:

- 25 kg bag - 1500 kg pallet
- Big Bag of 500 kg
- Bulk

PRINCIPAL COMPONENTS

Organic matrix: leather and peat

Mineral components: Ammonium sulfate/urea/ammonium phosphates/potassium oxide/mixed potassium salts/zinc sulphate.

DOSES AND USAGE APPLICATION

TREE CROPS

Young plants.....	500-600 kg/ha
2-3 years after planting.....	300-400 kg/ha
Adult plants.....	500-600 kg/ha

VEGETABLE CROPS

Greenhouse crops.....	40-60 kg/1000 m ²
Baby leaf crops.....	40-60 kg/1000 m ²
Open field crops.....	500-600 kg/ha

HOME AND GARDEN APPLICATIONS

Grass applications.....	40-60 g/m ²
Green plants and trees.....	40-50 g/plant
Flowers.....	40-60 g/m ²

OPEN FIELD CROPS

Corn/sunflower.....	400-500 kg/ha
Soybean/legumes.....	250-350 kg/ha
Weath/barley.....	500-700 kg/ha



CHARACTERISTICS

Slow time organic nitrogen release. The granular product when is deposit near to the roots gives a stock of nitrogen. This nitrogen can be mineralized gradually depending from the climate and agronomical conditions; longer time of nitrogen absorption during the development of the plants determines better production results. Balanced nutrition especially application of Sulphur and zinc uptake may enhance productivity to a great extent.

All the products of **HORGAMIN® LINE** contained at least 2% of organic nitrogen.

The elements within the formula are better absorbed due to the organic matrix. The organic matter increase the absorption efficiency of the product and reduce the application loses, due to leaching processes and the inappropriate application of the product.

This permit a reduction of the environmental impact that classical mineral fertilizers made to water ecosystems.

The perfect formation of the granular pellet:

The mean surface of the grains is 1.5 - 3 mm. This surface permit to help the open fields' distribution increasing fluency and precision of distributions.

All doses are indicative and may be variable depending from the climate and soil characteristics (temperature, pedology, etc.) The dosage must be insert inside a fertilization program.

Keep in a sheltered dry place.



Keep out of reach of children and animals

Product should not be directly in contact with plant's roots.

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Only for professional use.



Properly dispose of packaging



VIRGO®

NPK 6.10.18s+14SO₃+7,5C

HORGAMIN® LINE

AVERAGE CONTENTS ON THE SUBSTANCE AS IT IS

Total Nitrogen (N).....	6%
Organic Nitrogen (N).....	2%
Ammoniacal Nitrogen (N).....	3%
Nitric Nitrogen (N).....	1%
Total Phosphorus pentoxide (P ₂ O ₅).....	10%
Phosphorus pentoxide (P ₂ O ₅) soluble in ammonium citrate and water.....	8%
Phosphorus pentoxide (P ₂ O ₅) soluble in water.....	6%
Potassium oxide (K ₂ O) soluble in water.....	18%
Sulphur trioxide (SO ₃) soluble in water.....	14%
Organic Carbon (C).....	7,5%
pH.....	6-7



AVAILABLE ALSO WITH HORTICULTURE PACKAGING

PACKAGING:

- 25 kg bag - 1500 kg pallet
- Big Bag of 500 kg
- Bulk

PRINCIPAL COMPONENTS

Organic matrix: leather and peat

Mineral components: Ammonium sulfate/urea/ammonium phosphates/potassium oxide/mixed potassium salts.

DOSES AND USAGE APPLICATION

TREE CROPS

Young plants.....	500-700 kg/ha
2-3 years after planting.....	400-500 kg/ha
Adult plants.....	500-800 kg/ha

VEGETABLE CROPS

Greenhouse crops.....	40-60 kg/1000 m ²
Baby leaf crops.....	40-60 kg/1000 m ²
Open field crops.....	500-700 kg/ha

HOME AND GARDEN APPLICATIONS

Grass applications.....	40-80 g/plant
Green plants and trees.....	40-80 g/plant
Flowers.....	50-60 g/m ²

OPEN FIELD CROPS

Corn/sunflower.....	600-700 kg/ha
Sugar beet.....	250-350 kg/ha

CHARACTERISTICS

Slow time organic nitrogen release. The granular product when is deposit near to the roots gives a stock of nitrogen.

This nitrogen can be mineralized gradually depending from the climate and agronomical conditions; longer time of nitrogen absorption during the development of the plants determines better production results.

All the products of **HORGAMIN® LINE** contained at least 2% of organic nitrogen.

The elements within the formula are better absorbed due to the organic matrix.

The organic matter increase the absorption efficiency of the product and reduce the application loses, due to leaching processes and the inappropriate application of the product. This permit a reduction of the environmental impact that classical mineral fertilizers made to water ecosystems.

The perfect formation of the granular pellet: the mean surface of the grains is 1,5 - 3 mm.

This surface permit to help the open fields distribution increasing fluency and precision of distributions.

All doses are indicative and may be variable depending from the climate and soil characteristics (temperature, pedology, etc.) The dosage must be insert inside a fertilization program.

Keep in a sheltered dry place.



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Properly dispose of packaging



HERCULES®

NPK 12.6.5+0,01B+26SO₃+7,5C

HORGAMIN® LINE

AVERAGE CONTENTS ON THE SUBSTANCE AS IT IS

Total Nitrogen (N).....	12%
Organic Nitrogen (N).....	1%
Ammoniacal Nitrogen (N).....	10%
Nitric Nitrogen (N).....	1%
Total Phosphorus pentoxide (P ₂ O ₅).....	6%
Phosphorus pentoxide (P ₂ O ₅) soluble in ammonium citrate and water.....	5%
Phosphorus pentoxide (P ₂ O ₅) soluble in water.....	4%
Potassium oxide (K ₂ O) soluble in water.....	5%
Sulphur trioxide (SO ₃) soluble in water.....	26%
Organic Carbon (C).....	7,5%
Boron (B) soluble in water.....	0,01%
pH.....	6-7



AVAILABLE ALSO WITH HORTICULTURE PACKAGING

PACKAGING:

- 25 kg bag - 1500 kg pallet
- Big Bag of 500 kg
- Bulk

PRINCIPAL COMPONENTS

Organic matrix: leather and peat

Mineral components: Ammonium sulfate/urea/ammonium phosphates/potassium oxide/mixed potassium salts/zinc sulphate.

DOSES AND USAGE APPLICATION

TREE CROPS

Young plants.....	500-700 kg/ha
2-3 years after planting.....	400-500 kg/ha
Adult plants.....	500-800 kg/ha

VEGETABLE CROPS

Greenhouse crops.....	40-60 kg/1000 m ²
Baby leaf crops.....	40-60 kg/1000 m ²
Open field crops.....	500-700 kg/ha

HOME AND GARDEN APPLICATIONS

Grass applications.....	50-60 g/m ²
Green plants and trees.....	40-80 g/plant
Flowers.....	50-60 g/m ²

OPEN FIELD CROPS

Corn/sunflower.....	600-700 kg/ha
Sugar beet.....	250-350 kg/ha

CHARACTERISTICS

Slow time organic nitrogen release. The granular product when is deposit near to the roots gives a stock of nitrogen. This nitrogen can be mineralized gradually depending from the climate and agronomical conditions; longer time of nitrogen absorption during the development of the plants determines better production results.

Boron uptake seems to be the key element affecting quality, reduce several nutritional disorders such as low fruit set and other physiological diseases affecting marketability. All the products of **HORGAMIN® LINE** contained at least 2% of organic nitrogen.

The elements within the formula are better absorbed due to the organic matrix. The organic matter increase the absorption efficiency of the product and reduce the application loses, due to leaching processes and the inappropriate application of the product. This permit a reduction of the environmental impact that classical mineral fertilizers made to water ecosystems. The perfect formation of the granular pellet: the mean surface of the grains is 1,5 - 3mm. This surface permit to help the open fields' distribution increasing fluency and precision of distributions.

All doses are indicative and may be variable depending from the climate and soil characteristics (temperature, pedology, etc.) The dosage must be insert inside a fertilization program.

Keep in a sheltered dry place.



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Properly dispose of packaging

HORGAMIN® LINE

AVERAGE CONTENTS ON THE SUBSTANCE AS IT IS

Total Nitrogen (N).....	10%
Organic Nitrogen (N).....	2%
Ammoniacal Nitrogen (N).....	6%
Ureic Nitrogen (N).....	1%
Nitric Nitrogen (N).....	1%
Total Phosphorus pentoxide (P ₂ O ₅).....	5%
Phosphorus pentoxide (P ₂ O ₅) soluble in ammonium citrate and water.....	4%
Phosphorus pentoxide (P ₂ O ₅) soluble in water.....	3,5%
Potassium oxide (K ₂ O) soluble in water.....	10%
Magnesium oxide (MgO).....	2%
Sulphur trioxide (SO ₃) soluble in water.....	22%
Organic Carbon (C).....	7,5%
pH.....	6-7



AVAILABLE ALSO WITH HORTICULTURE PACKAGING

PACKAGING:

- 25 kg bag - 1500 kg pallet
- Big Bag of 500 kg
- Bulk

PRINCIPAL COMPONENTS

Organic matrix: leather and peat

Mineral components: Ammonium sulfate/urea/ammonium phosphates/potassium oxide/mixed potassium salts/magnesium sulfate.

DOSES AND USAGE APPLICATION

TREE CROPS

Young plants.....	500-700 kg/ha
2-3 years after planting.....	400/500 kg/ha
Adult plants.....	500/800 kg/ha

VEGETABLE CROPS

Greenhouse crops.....	40-60 kg/1000 m ²
Baby leaf crops.....	40-60 kg/1000 m ²
Open field crops.....	500-700 kg/ha

HOME AND GARDEN APPLICATIONS

Grass applications.....	50-60 g/m ²
Green plants and trees.....	40-80 g/plant
Flowers.....	50-60 g/m ²

OPEN FIELD CROPS

Corn/sunflower.....	600-700 kg/ha
Sugar beet.....	250-350 kg/ha

CHARACTERISTICS

Slow time release of organic nitrogen. The granular product when is deposit near to the roots gives a stock of nitrogen.

This nitrogen can be mineralized gradually depending from the climate and agronomical conditions; longer time of nitrogen absorption during the development of the plants determines better production results.

All the products of **HORGAMIN® LINE** contained at least 2% of organic nitrogen.

The elements within the formula are better absorbed due to the organic matrix.

The organic matter increase the absorption efficiency of the product and reduce the application loses, due to leaching processes and the inappropriate application of the product.

This permit a reduction of the environmental impact that classical mineral fertilizers made to water ecosystems.

The perfect formation of the granular pellet: the mean surface of the grains is 1,5 - 3mm.

This surface permit to help the open fields distribution increasing fluency and precision of distributions.

All doses are indicative and may be variable depending from the climate and soil characteristics (temperature, pedology, etc.) The dosage must be insert inside a fertilization program.

Keep in a sheltered dry place.

Keep out of reach of children and animals

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Properly dispose of packaging



DRACO®

NPK 10.5.15s+2MgO+28SO₃+7,5C

HORGAMIN® LINE

Special for Orchards and Vegetable Gardens

AVERAGE CONTENTS ON THE SUBSTANCE AS IT IS

Total Nitrogen (N).....	10%
Organic Nitrogen (N).....	2%
Ammoniacal Nitrogen (N).....	8%
Total Phosphorus pentoxide (P ₂ O ₅).....	5%
Phosphorus pentoxide (P ₂ O ₅) soluble in ammonium citrate and water.....	5%
Phosphorus pentoxide (P ₂ O ₅) soluble in water.....	3%
Potassium oxide (K ₂ O) soluble in water.....	15%
Magnesium oxide (MgO) soluble in water.....	2%
Sulphur trioxide (SO ₃) soluble in water.....	28%
Organic Carbon (C).....	7,5%
pH.....	5-6%



AVAILABLE ALSO WITH
VINYARD PACKAGING

PACKAGING:

- 25 kg bag - 1500 kg pallet
- Big Bag of 500 kg
- Bulk

PRINCIPAL COMPONENTS

Organic matrix: skins and animal hair

Mineral components: urea, NP mineral diammonium phosphate fertilizer, ammonium sulphate, simple superphosphate, potassium sulphate; containing potassium only from sulphate.

DOSES AND USAGE APPLICATION

TREE CROPS

Kiwi, Cherry, Kaki, Apple, Pear, Lemon.....	900-1100 kg/ha
Peach, Apricot, Plum, Orange.....	1200-1300 kg/ha
Table grapes, Currant.....	1000-1200 kg/ha

HORTICULTURE

Bean, French bean, Lupin.....	500-600 kg/ha
Spinach, Onion.....	900-1100 kg/ha
Cauliflower, White and Savoy cabbage.....	1000-1200 kg/ha
Chicory, Garlic, Courgette.....	1000-1200 kg/ha
Watermelon, Melon, Potato.....	1200-1500 kg/ha
Lettuce.....	700-900 kg/ha
Aubergine.....	1400-1600 kg/ha
Tomato.....	1100-1300 kg/ha
Artichoke.....	900-1200 kg/ha
Basil.....	900-1000 kg/ha

CHARACTERISTICS

The main properties of the granular organo-mineral **HORGAMIN® LINE** can be summarized as follows:

- presence of slow-release natural organic nitrogen in combination with the mineral fraction;
- greater availability of phosphorus thanks to the interaction between mineral phosphate and humic substances;
- potassium from a high-quality component (only from sulphate);
- minimization of waste by deep percolation and surface washout;
- more rational and targeted use of nutrients with a consequent reduction of fertilization costs;
- all these products are complex: every single granule contains all the nutrients declared.

DRACO® is recommended especially for ORCHARDS AND VEGETABLE GARDENS as it is rich in nitrogen and potassium. It also contains magnesium. The product is generally suitable for all types of pomaceae, drupaceae, citrus plants and grapevines, as well as many horticultural species.

All doses are indicative and may be variable depending from the climate and soil characteristics (temperature, pedology, etc.) The dosage must be insert inside a fertilization program.

Keep in a sheltered dry place.



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Properly dispose of packaging

HORGAMIN® LINE

Super Vineyards and Vegetables

AVERAGE CONTENTS ON THE SUBSTANCE AS IT IS

Total Nitrogen (N).....	4%
Organic Nitrogen (N).....	1%
Ammoniacal Nitrogen (N).....	4%
Total Phosphorus pentoxide (P ₂ O ₅).....	7%
Phosphorus pentoxide (P ₂ O ₅) soluble in ammonium citrate and water.....	7%
Phosphorus pentoxide (P ₂ O ₅) soluble in water.....	4%
Potassium oxide (K ₂ O) soluble in water.....	14%
Sulphur trioxide (SO ₃) soluble in water.....	22%
Magnesium oxide (MgO).....	5%
Organic Carbon (C).....	7,5%
pH.....	5-6%



AVAILABLE ALSO WITH
VINYARD PACKAGING

PACKAGING:

- 25 kg bag - 1500 kg pallet
- Big Bag of 500 kg
- Bulk

PRINCIPAL COMPONENTS

Organic matrix: skins and animal hair

Mineral components: NP mineral diammonium phosphate fertilizer, ammonium sulphate, simple superphosphate, potassium sulphate; containing potassium only from sulphate.

DOSES AND USAGE APPLICATION

TREE CROPS

Kiwi, Cherry.....	600-900 kg/ha
Grapevine, Olive, Peach, Apricot.....	600-700 kg/ha
Orange, Clementine.....	600-700 kg/ha
Mandarin, Lemon, Table grapes.....	400-500 kg/ha

HORTICULTURE

Bean, French bean, Lupin, Radish.....	600-900 kg/ha
Endive, Spinach, Chard.....	400-600 kg/ha
Basil, Cauliflower.....	400-600 kg/ha
White cabbage and Savoy cabbage.....	400-600 kg/ha
Chicory, Onion.....	400-600 kg/ha
Radicchio, Aubergine.....	700-800 kg/ha
Watermelon, Melon, Potato, Tomato.....	600-800 kg/ha
Strawberry, Pepper, Cucumber.....	600-800 kg/ha
Mandarin, Lemon.....	400-500 kg/ha

CHARACTERISTICS

The main properties of the granular organo-mineral szx**HORGAMIN® LINE** can be summarized as follows:

- presence of slow-release natural organic nitrogen in combination with the mineral fraction
- greater availability of phosphorus thanks to the interaction between mineral phosphate and humic substances
- potassium from a high-quality component (only from sulphate)
- minimization of waste by deep percolation and surface washout
- more rational and targeted use of nutrients with a consequent reduction of fertilization costs
- all these products are complex: every single granule contains all the nutrients declared

CENTAURUS® is recommended especially for VINEYARDS AND VEGETABLES as it is rich in potassium, an essential element for the content and quality of fruits and berries.

The balance between the content of nitrogen and phosphorus makes it suitable also for a correct basic fertilization.

The product has the same effects also on some extensive crops like beet and soya.

All doses are indicative and may be variable depending from the climate and soil characteristics (temperature, pedology, etc.) The dosage must be insert inside a fertilization program.

Keep in a sheltered dry place.



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Note

Note



