tangel AGRO

2025

Introduction

tangel AGRO

“The acquisition of a new truth is like the acquisition of a new sense, which renders a man capable and recognizing a large number of phenomena that are hidden from another, as they were from him originally.”

Tangel Agro is a Spanish company with a global vision, born to develop, produce and distribute bioprotection products for use in agricultural crops.

How Tangel Agro evolved?

Tangel Agro has been driven by a group of young and ambitious entrepreneurs & a team of strong functional as well as technical professionals that cater to customer needs with prompt service and swift action. Their preparation along with the team work has brought a series of products with
properties like: efficiency, rentability and respect for the environment.

Mission and who is Tangel Agro serving:

The primary objectives of Tangel Agro is to serve the agricultor, the main protagonist of our activities.

Introduction

Tangel Agro

Tangel Agro uses in all its activities the most actual and clean technologies for a better production and distribution.

Tangel Values

The product needs to be efficient, both in its nutritional and bioprotection activations.

Tangel Agro assures each customer of precise and correct information in relation with each product's composition, its properties and its use on agricultural crops. Tangel Agro does not offer only products, but also all the information that the customer needs with regards to the fertilizing plans, mixes and quantities of each individual product.

We believe that our customers should be precisely guided and benefit from Tangel Agro's asistency so that they can utilize the products at their peak performance.

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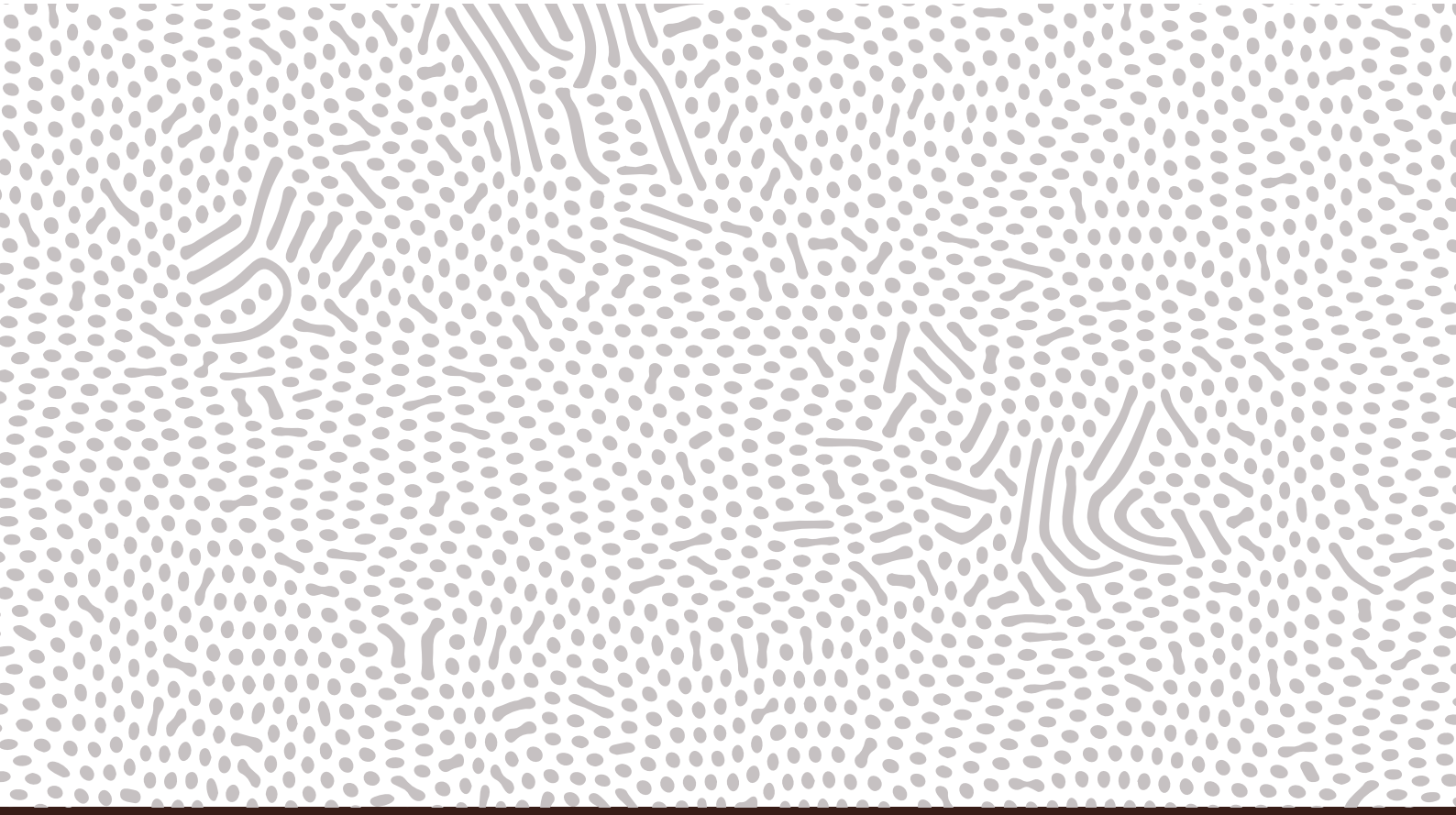
AMINOACIDS



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Datasheet

Aminoacid
Foliar/Solid

ECOLOGICAL AGRICULTURE

SOWY

COMPOSITION	%w/w
Total Aminoacids	28
Free Aminoacids	25
Total Nitrogen	5
Organic Nitrogen	4
Defense inductor (ID)	3

- **VEGETAL ORIGIN**
- **BIOSTIMULATING ACTIVITY**
- **ANTISTRESS EFFECT**

Liquid fertilizer of high concentration of amino acids

CHARACTERISTICS

SOWY is a product of natural origin, with a high content of free amino acids, derived from vegetable matter. Composed of amino acids that the plant uses to satisfy its protein needs, with an important energysaving, acting as an effective biostimulant during the rooting, sprouting, flowering, fruit setting and fruit development stages.

ACTIONS

- *INCREASED PRODUCTIVITY*
- *FAVORIZES RADICULAR DEVELOPMENT*
- *IMPROVES THE ABSORPTION AND TRANSPORTATION OF NUTRIENTS*
- *INDUCES A BETTER POLLINATION AND FLOWERING*
- *GOOD SPROUTING*
- *FRUITS OF GREATER QUALITY*

APPLICATION

CROPS	SOIL DOSAGE	Lts/ha
Strawberries	Every 10 days after transplanting	4
Fruit trees	From budding until the swelling of the fruit	6
Banana plants	Every 15 days between March and June	6
Olive trees	Throughout the whole cycle	18
Table grapes	From budding until the end of the cycle	5
Dry fruits	From budding until the swelling of the fruit	5
Citrus fruit	From flowering until the swelling of the fruit	12
Cotton	10 days after shooting until 20 days after the flowering	6
Ornamental Plants	Every 15 days after transplanting	4

CROPS	FOLIAR DOSAGE	cc/100L
Horticultural crops	Every 10 days after transplanting	200
Strawberries	Throughout the whole cycle	200
Tubers	Every 15 days	250
Fruit trees	From budding until the swelling of the fruit	200-300
Banana plants	Every 15 days	250
Olive trees	Throughout the whole cycle	200-300
Table grapes	From budding until the end of the cycle	250
Wine grapes	From budding until the end of the cycle	2 L/Ha
Dry fruits	From budding until the swelling of the fruit	200-300
Citrus fruits	From flowering until the swelling of the fruit	200-300
Beet	2 applications every 15 days	2,5 L/Ha
Cotton	10 days after sprouting until 20 days after the first flower.	300
Alfalfa	After every mowing	2,5 L/Ha
Ornamental plants	Every 15 days after transplanting	250
Lawn	After sowing/Growth phase	3-5 L/Ha/ 30 cc/m2

A M I N O A C I D S

tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L -1000L
Plastic Bottle/IBC

IMPORTED FROM EU

tangelAGRO

Datasheet

Aminoacid
Foliar / Soil

HIGH QUALITY

SOWY Solid

Solid free amino acids

COMPOSITION	%w/w
Free aminoacids	74,0
Total Nitrogen (N)	13,0
Organic Nitrogen (N)	12,0
Ammoniacal nitrogen (N)	1,0

- **SOLID OF HIGH SOLUBILITY**
- **VEGETAL ORIGIN**
- **BIOSTIMULATING ACTIVITY**
- **ANTISTRESS EFFECT**

CHARACTERISTICS

SOWY SOLID is a biostimulant product composed of amino acids of vegetable origin obtained by enzymatic hydrolysis of natural proteins. Stimulates the essential metabolic processes in a crop: rooting, sprouting, flowering, setting and fruit development, especially when there are adverse situations in the process of plant development.

ACTIONS

- *INCREASE RESISTANCE TO STRESS (High temperature, low humidity, drought, pest attacks, frost, flood)*
- *PROTEIN SYNTHESIS*
- *INCREASES CONTENT OF CHLOROPHYLL*
- *REGULATES STOMATAL OPENING*
- *CHELATING AGENT FOR MICRONUTRIENTS*
- *RAW MATERIALS HORMONES*
- *HELPS POLLINATION AND FRUIT SET*
- *NCREASES SOIL MICROBIAL ACTIVITY*

SOIL APPLICATION

CROPS	Application
In all crops	**SEASON:** Reduction of stress, improvement of efficiency of plant protection treatment **ANNUAL DOSAGE:** 3-4 Kg/Ha in case of stress (salinity, dryness, etc) divided into several doses (1 Kg/Ha)
Cereals, potatoes, legumes	**SEASON:** Yield increase **ANNUAL DOSAGE:** 3-4 Kg/Ha divided into 3 applications every 15 days after the first true leaf stage
Horticultural fruit trees	**SEASON:** Fruit setting, fruit growth and quality **ANNUAL DOSAGE:** 1-2 Kg/Ha every 10-15 days, from pre blooming stage until the beginning of the colouring stage

CROPS	Application
Open field vegetables	**SEASON:** Yield increase **ANNUAL DOSAGE:** 1-2 Kg/Ha every 7-10 days after the first true leaf stage
Ornamental plants and tree nursery, landscaping, turf grass (in general)	**SEASON:** Root formation and nutrient uptake, sprouting leaf quality, growth **ANNUAL DOSAGE:** 1 Kg/Ha every 7-12 days starting from planting
Vegetables in greenhouses	**SEASON:** Yield, sprouting leaf quality, growth **ANNUAL DOSAGE:** 3-4 Kg/Ha divided into 2-3 applications every 10-15 days, starting from planting

The recommended concentration for **foliar application** is 0,3-0,5% in the usual quantity of spray water.

A M I N O A C I D S

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AVAILABLE IN
1Kg - 5Kg - 20Kg
Bag

IMPORTED FROM EU

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BIOPROTECTION

tangel AGRO

Datasheet

BION

Citrus extract
Foliar / Soil

Natural Biofungicide & Bioinsecticide

COMPOSITION	%w/w
Citrus extract	25
Zinc (Zn)	2,5
Manganese (Mn)	1,2

- **SYSTEMIC**
- **NATURAL**
- **ZERO RESIDUE**

CHARACTERISTICS

BION is a natural fungicide and bactericide, derived from citrus extract, with very low toxicity for animals and humans.
BION is a product that, due to its organic characteristics, can be used during the harvest because it leaves no residue (0 days safety term), ensuring a good conservation.

ACTIONS

- ***TRANSPORTED SYSTEMICALLY TO THE ENTIRE PLANT***
- ***ANTI STRESS EFFECT***
- ***MISCIBLE WITH ALMOST ALL PESTICIDES***
- ***INDUCES SYSTEMIC RESISTANCE***

APPLICATION

Crops	Preventive	Healing
Cauliflor, Corn, Cucumber, Grapevine, Lettuce, Melon, Ornamentals, Pepper, Pome, and stone fruits, Post-harvesting, Rice, Strawberry, Tomato, Tubers.	**Root:** 0,75 - 1,5 L/Ha **Foliar:** 1 - 2 L/Ha **Application:** Apply every 10 - 20 days.	**Root:** 1,5 L/Ha **Foliar:** 2 L/Ha **Application:** Apply every 5 - 7 days up to recovery the crop.
		Post-harvesting 1,5-2,5 mL/L (4-11Kg Fruit)

BIOPROTECTION

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AVAILABLE IN
0,5L - 1L - 5L - 10L - 20L
Plastic Bottle

IMPORTED FROM EU

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Datasheet

2 CARB

Biofungicide
Foliar

Foliar | BIOLOGICAL AGRICULTURE | ZERO RESIDUES

COMPOSITION g/Kg

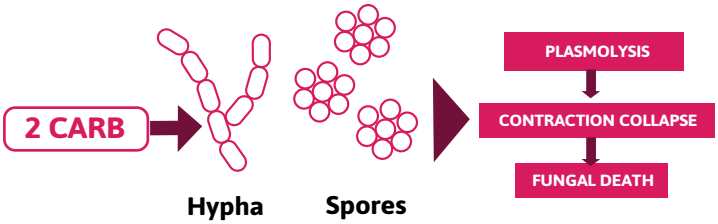
Potassium Hydrogen Carbonate	990,0

2 CARB also holds 20 authorized uses in woody crops for controlling various diseases such as moniliasis, botrytis, or leaf blotch.

Broad-spectrum biofungicide

CHARACTERISTICS

2 CARB is a contact fungicide with preventive and curative action for controlling **powdery mildew, botrytis, and penicillium**. The mode of action of potassium hydrogen carbonate is linked to disrupting the pH, osmotic pressure, and bicarbonate/carbonate ion balance in susceptible fungi. It acts upon contact and inhibits the development of mycelial hyphae and spores.
Its active ingredient is of mineral origin and extremely common in nature. Because of its extremely low toxicity, potassium bicarbonate presents no health risks to operators and bystanders, and its residues present no risks to consumers. It is a recognized food additive (E 501).



ACTIONS

- **High effectiveness against ectoparasitic fungi**
- **Broad spectrum of action**
- **Compatible with all types of treatment programs**
- **Non-interfering in vinification processes, a good alternative to sulfur**
- **Safe for users and environmentally friendly.**

MODE OF ACTION

2 CARB has two distinct modes of action against ectoparasitic fungi:

- **Desiccant and direct action** on the extreme parts of the fungus, such as spores, hyphae, or mycelia. Upon applying 2CARB-K to the disease, rapid dehydration occurs in all treated parts of the fungus, causing its demise and preventing further growth.

- **Preventive action**, inhibiting disease proliferation in the treated areas with 2CARB-K. The product's application results in a slight increase in pH on the plant surface, hindering the hydrolytic enzymes' activity of the fungus, thus preventing disease establishment in the crop.

FOLIAR APPLICATION

Crops	Diseases	Dosage g /hl	Observations
Vegetables in general, Berries, General ornamentals	Powdery mildew caused by various fungi: (Oidium spp.) (Sphaerotheca fuliginea) (Erysiphe cichoracearum) (Podosphera xanthii)	350 - 1.000	From the second true leaf unfolded (BBCH 12) until full fruit ripening (BBCH 89). Make 1-8 applications every 10 days.
Vid (grape for wine)	Powdery mildew (Erysiphe necator)	450 - 2.000	From the second true leaf unfolded (BBCH 12) until berries are ready to harvest (BBCH 89)
Apple tree	Apple scab (Venturia inaequalis)	500 – 1.000	From emerging leaf tips (BBCH 10) until change in fruit color (BBCH 85)
Post-harvest of different fruits: oranges, cherries, apples, papayas, etc.	Blue mold (Penicillium italicum) Green mold (Penicillium digitatum)	1.000 – 4.000	In post-harvest. (Harvested fruit) Immersion or surface treatment. Perform 1-2 applications every 10 days.

Foliar application rates: 350 – 1,000 g/hl.
Foliar applications using a spray volume of 300-600 l/ha, except for apple trees at 500-1,000 l/ha.Top of Form

Concentrations higher than 1% - 2% may cause phytotoxic symptoms. Different crops have varying sensitivities. Verify phytotoxic effects concentrations before use. Usage recommendations:
Can be alternated or mixed with fungicidal products under strong disease pressure.
Avoid mixing with oil-based formulations.
Avoid mixing with calcium-based products.

BASIC SUBSTANCE. Commission Implementing Regulation (EU) No 1107/2009. Can be used according to the conditions specified in report SANTE/10667/2015 by the Standing Commitee on Plants, Animals, Food and Feed.
Product usable in organic farming according to Regulation (EU) 2018/848 and compliant with NOP standards.

BIOPROTECTION

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AVAILABLE IN
1Kg - 5Kg - 20Kg

IMPORTED FROM EU

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Datasheet

WONKA

Biofungicide Elicitor
Foliar

BIOLOGICAL AGRICULTURE · FOLIAR · ZERO RESIDUES

Broad-spectrum biofungicide

COMPOSITION %w/w

Decoction of horsetail (Equisetum arvense)	2,0
Willow bark extract (Salix spp. cortex)	0,22
Purified Chitosan	2,0

ACTIONS

- **Activates the plants´defense mechanisms.**
- **All-natural fungicide.**
- **It favors the development and growth of plants.**
- **Rich in Silica**
- **Strengthens the plant tissue.**

WONKA is a good natural fungicide that also induces the plant to improve its immune system.

Antiviral Activity:
Pretreatment with chitosan significantly reduces viral infection in several plant species.

Growth Stimulation:
Applying chitosan has positive effects on plant growth, stimulating both seed germination and the growth of plant parts such as roots, shoots and leaves. The salicylic acid in willow bark extract produces a biostimulant effect on the various metabolic processes of the plant, also inducing plants to generate natural defense mechanisms.

CHARACTERISTICS

WONKA contains natural active ingredients with fungicidal activity and elicitors of the defense mechanism against pests and diseases.

WONKA is composed of chitosan hydrochloride, Equisetum arvense (horsetail) and willow bark extract (Salix spp. Cortex).

Bactericidal activity:
The bactericidal activity of chitosan is associated with its cationic character. The amino free groups, positively charged in an acidic medium, interact with negative charges of the cell membrane of fungi, changing the permeability of the plasma membrane, with the consequent alteration of its main functions.

Fungicidal activity:
Chitosan is a polysaccharide that acts as a bio remedial molecule and stimulates the activity of beneficial microorganisms in the soil, such as Bacillus, fluorescent, Pseudomonas, Actinomycetes, mycorrhizae and rhizobacteria, which alters the microbial balance in the rhizosphere, puting plant pathogens at a disadvantage, making them able to compete through mechanisms such as parasitism, antibiosis and induced resistance.

FOLIAR APPLICATION

Crops	Objective	Time of appl.	N° Appl	Interval between appl	Dosage ml/hl
Apple trees (Malus pumila, Malus domestica) Peach trees (Prunus persica)	Leaf fungi such as apple scab disease: Venturia inaequalis. Powdery mildew: Podosphaera leucotricha. Peach leaf curl: Taphrina deformans.	From bud break to wilting of the flowers. Spring.	2-6	7 days	300-500
Grapevine (Vitis vinifera)	Downy mildew: Plasmopara viticola. Powdery mildew: Erysiphe necator.	From the development of the first shoots until the berries start touching.	2-6	7 days	300-500
Cucumber (Cucumis sativus)	Downy mildew: Podosphaera xanthii. Root fungi such as root rot or blight: Pythium spp.	From the ninth unfolded leaf until nine or more visible lateral shoots.	2	3-4 days	400-600
Tomato (Solanum lycopersicum)	Early blight: Alternaria solani. Septoria leaf spot: Septoria lycopersici.	From the first visible inflorescence until the flower is about to open. Summer.	2	14 days	300-500
Strawberry (Fragaria x ananassa) Raspberry (Rubus idaeus)	Gray mold: Botrytis cinerea. Powdery mildew: Podosphera aphanis. Other fungi: Colletotrichum acutatum.	Restart of growth until the end of fruiting from early spring to late summer.	4-8	5-14 days	300-500
Potatoes (Solanum tuberosum)	Late blight: Phytophthora infestans Early blight: Alternaria solani Powdery mildew: Erysiphe chichoracearum	From bud break to fruit ripening	4-8	5-14 days	300-500
Ornamentals	Marsonia spp., Phragmidium mucronatum, powdery mildew, and downy mildew	One single foliar appliction when the first symptoms of the disease appear.	1	----	400-600

WONKA is compatible with most phytosanitary and nutritional products on the market. Do not mix with alkaline products. If in doubt, carry out a prior compatibility test.
The product is suitable for use in organic agriculture according to Regulation (EU) 2018/848 and in compliance with the NOP standard.

BIOLOGICAL AGRICULTURE

BIOPROTECTION

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AVAILABLE IN
250ml; 500ml, 1L, 5L, 10L, 20L

IMPORTED FROM EU

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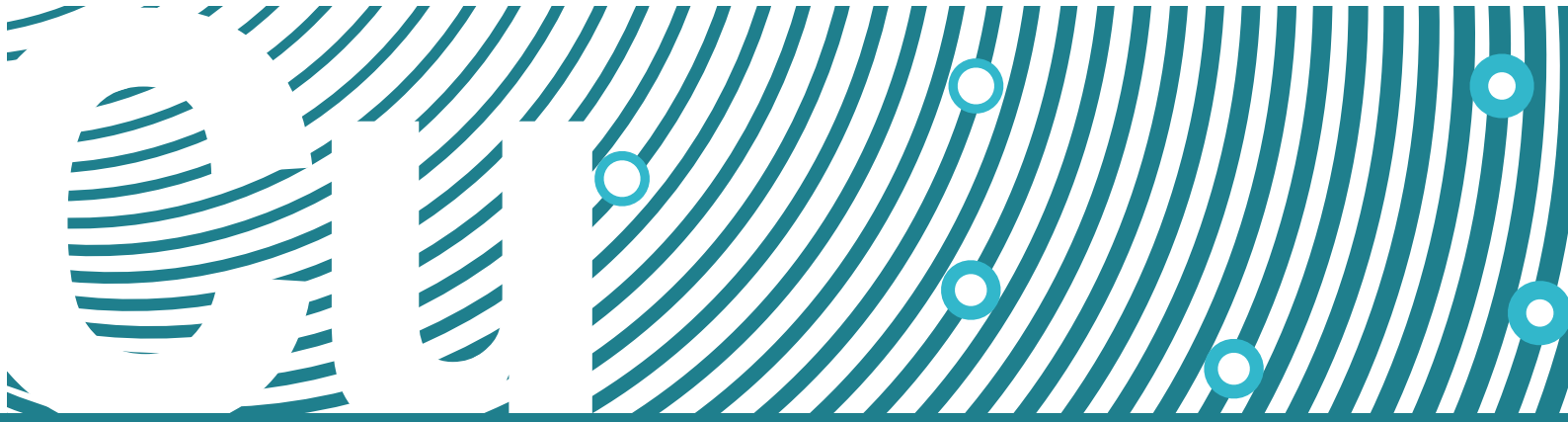
COPPER



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Datasheet

COBBER G

Organic Copper
Foliar / Soil

ZERO RESIDUES

BioFungicide - Bactericide
Cu Deficiency Corrector

COMPOSITION	%w/w	%w/v
Copper (Cu)	6,5	8
Organic Complexant Agent		
Gluconic Acid		

- **BIODEGRADABLE**
- **SYSTEMIC ACTION**
- **DOES NOT STAIN THE PLANT**
- **IMPROVE CONSERVATION OF FRUITS**
- **HIGH ASSIMILATION**

CHARACTERISTICS

COBBER G contains the copper ion (Cu^{+2}) complexed by a natural organic molecule (Gluconic acid). This complexation favors the transport of Cu in the plant.

COBBER G is a systemic product that stimulates the synthesis of PHYTOALEXINES, which increase the natural defenses of the crops.

ACTIONS

- *PREVENTS THE ABIOTIC STRESS PLANT*
- *FUNGICIDE / NATURAL ORGANIC BACTERICIDAL*
- *HIGH EFFICIENCY*

APPLICATION

Crops	Application
Cereals	**Foliar:** 150-250 cc/hL
	Foliar: 200-300 cc/hL (2 to 3 application from the beginning of budding)
Citrics	**Fertirrigation**: 6L-12L/ha (Apply 2-3 times: the first application near vegetative cessation, the second at the onset of budding, and the last during full vegetative activity)
Fruit Trees	**Foliar:** 200-300 cc/hL (2 to 3 application from the beginning of budding) **Fertirrigation:** 6L-12L/ha (Apply 2-3 times: the first application near vegetative cessation, the second at the onset of budding, and the last during full vegetative activity)
Horticultural Crops	**Foliar:** 150-300 cc/hL (3-4 applications as needed and based on the crop's development) **Fertirrigation**: 5L-10L/ha (3-4 applications as needed and based on the crop's development)
Olive Trees	**Foliar:** 200-300 cc/hL (2 to 3 application from the beginning of budding) **Fertirrigation:** 6L-12L/ha (Apply 2-3 times: the first application near vegetative cessation, the second at the onset of budding, and the last during full vegetative activity)
Rice	**Foliar:** 150-250 cc/hL Fertirrigation: 5L/ha Copper deficiency
Vine	**Foliar:** 200-300 cc/hL until veraison

Cautions
It is recommended to treat between 6 and 25 °C. Avoid applications in cases of extreme drought, humidity, frost and rain. **Shake well before use. Do not freeze.** In case of mixing with other products, always carry out a previous test. Incorporate this product into the last phase.

COPPERS

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AVAILABLE IN
1L - 5L - 10L
Plastic Bottle

FERTILIZER
CE
IMPORTED FROM EU

tangelAGRO

Datasheet

Inorganic Copper
Foliar / Soil

ZERO RESIDUES

Multisite Contact Activity
MCA

BioFungicide - Bactericide
Cu Deficiency Corrector

COBBER S

COMPOSITION %w/v

Total Copper (Cu)	20 (200 g/L)
Copper sulfate	75 (750 g/L)
Sulfur (SO_3)	26 (260 g/L)
Density:	1,4
pH:	4,5 - 5

- *MULTISITE CONTACT ACTIVITY*
- *EXCELLENT CROP SAFETY AND LOW USE RATES*
- *CONSISTENT, SUB-MICRON PARTICLE SIZE FOR BETTER COVERAGE AND DISEASES CONTROL*
- *BETTER ADHESION AND COVERAGE*

CHARACTERISTICS

COBBER S is a fungicide and contact bactericide, broad spectrum, preventive and curative action for the control of some diseases.

The smaller particle size in **COBBER S** delivers better plant coverage, which means better protection against fungal and bacterial diseases. The premium formulation readily mixes in water and stays suspended longer than any other liquid formulation.

ACTIONS: KEY DISEASES CONTROLLED

Alternaria	*Collectrichum spp.*	*Phomopsis stem blight*
Anthracnose	*Dieback*	*Phytophthora bud rot*
Bacterial leaf spot	*Downy mildew*	*Pseudomonas leaf spot*
Bacterial soft rot	*Entomosporium*	*Scab*
Bacterial spot	*Exosporium leaf spot*	*Septoria leaf spot*
Black spots	*Fire blight*	*Volutella leaf blight*
Botrytis	*Leaf spot*	*Xanthomonas leaf spot*
Cercospora leaf spot	*Pestalotia leaf spot*	

FOLIAR APPLICATION

Crops	Dosage
Citrus	75-125 cc/Hl
Fruits Trees (Winter)	250-400 cc/Hl
Forest nurseries	150-180 cc/Hl
Herbaceous and Ligneous	150-250 cc/Hl

Crops	Dosage
Olive	300-600 cc/Hl
Pistachio	200-400 cc/Hl
Vegetable	150-180 cc/Hl
Vine	200-300 cc/Hl

Caution

Compatible with most insecticides and fungicides. Do not mix with acides or alkalis. Do not add amino acids. **Shake well before use. Do not freeze.**

COPPERS

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AVAILABLE IN
1L - 5L - 10L
Plastic Bottle

FERTILIZER
CE
IMPORTED FROM EU

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CROPS

tangel AGRO

Datasheet

CITRICUS - MnZn

Fertilizer
Foliar/Soil

COMPOSITION	%w/v
Total Zinc (Zn)	13,5
Total Manganese (Mn)	13,5
Total Nitrogen (N)	6,0
Density:	1,65
pH (10% solution):	6

Special for Citrus. Mn and Zn Corrector

- **ESPECIALLY FOR CITRUS**
- **RAPID UPTAKE - FLOW**
- **EASY TO APPLY**

CHARACTERISTICS

CITRICUS MnZn is a highly concentrated emulsion (Flow) of Zinc and Manganese salts and it's chloride free and fully water soluble. A combined application of Zn and Mn is more effective than single sprays on their own.

Low **Zinc** levels reduce the fruit number per tree and, to a lesser extent, fruit size, resulting in decreased yields. Zinc deficiency symptoms in citrus first appear as chlorotic leaf spots (mottle leaf) and/or white interveinal areas with green veins.

Manganese deficiency is usually seen on young leaves as a mottled yellowing of the leaf.

ACTIONS

- *ENHANCE CONTENT IN VITAMIN C*
- *IMPROVES QUALITY (INCREASES 'TSS' CONTENT OF THE FRUIT)*
- *INCREASES THE SIZE OF LEAVES, SHOOTS AND FRUITS*
- *INCREASES YIELD. A HIGHER NUMBER OF FRUIT PER TREE*

APPLICATIONS

Foliar: 300-500 cc / hl.

Dosage and Application

Make 2-4 applications during the crop cycle, according to needs and development.
Citrus, application should be performed after the onset of the new shoots of spring and summer when the shoots reach 2/3 of its development.

Dilution

Recommended water rate is 500-1500 L per hectare. Always shake the container before opening.

Cautions

The spray tank should be filled with half of the required amount of water. Measure the required amount of **CITRICUS MnZn** and add to the tank maintaining constant agitation. Add remaining water and Spray.

CITRICUS MnZn should be stored in frost free conditions with optimum storage range between 5-40°C. In situations of prolonged storage there may be slightly settling of the nutrient particles. This is reversible on shaking.

CROPS

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www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L
Plastic Bottle

FERTILIZER
CE
IMPORTED FROM EU

NEW

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Datasheet

Fertilizer
Foliar

FOLIAR

Systemic

GLUCO COMPLEX

RAPS COMPLEX

COMPOSITION	%w/v
Boron (B) water soluble	1,0
Manganese (Mn) water soluble	1,0
Magnesio (MgO) water soluble	1,2
Iron (Fe) water soluble	0,9
Zinc (Zn) water soluble	0,9
Molybdenum (Mo) water soluble	0,5
pH: 4-5	
Density: 1,2	

- **ESPECIALLY FOR OILSEED PLANTS**
- **RAPID UPTAKE**
- **EASY TO APPLY**

Foliar fertilizer for Oilseed Rape and other Oilseed plants (Flax and Sunflower)

CHARACTERISTICS

RAPS COMPLEX is a concentrated foliar nutrient solution with a tailored nutrient package to help oilseed rape crops reach their full potential.

The unique formulation of micronutrients has been specifically designed to boost oilseed rape growth particulary during the key establishment period. Essentially a brassica, the nutrient requirement of oilseed rape is substantial and very dierent from other arable crops such as cereals.

The micronutrients chelated by Gluconic acid, an organic molecule of natural origin bring several advantages, such as excellent solubility, biodegradability, and chemical stability of the complexes, even in alkaline conditions.

ACTIONS

- ***BETTER QUALITY AND YIELD.***
- ***IMPROVED MICRONUTRIENTS UPTAKE.***
- ***REGULAR FLOWER AND MATURATION.***

FOLIAR APPLICATION

OILSEED RAPE - Winter oilseed rape	General Dose
Autumn 4-8 leaves unfolded	1 L/ha
Spring after start of growing season / beginning of main stem elongation	
Bud formation	
From the beginning of petal fall – until the beginning of pods development	

FLAX	General Dose
"Herringbone" phase	1 L/ha
Phase of rapid growth	
Seting flower buds – until the beginning of flowering (optional)	

OILSEED RAPE - Spring oilseed rape	General Dose
Leaf development – until beginning of mean stem elongation	1 L/ha
Bud formation – until beginning of flowering	
Bud formation – From the beginning of petal fall – until the beginning of pods developmentginning of flowering	

SUNFLOWER	General Dose
2-4 leaves unfolded	1 L/ha
Beginning of steam elongation	

CROPS
tangel AGRO

www.tangelagro.com

AVAILABLE IN
1L - 5L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

NEW

tangel AGRO

Datasheet

RICE COMPLEX

Fertilizer
Foliar/Seed

Systemic

COMPOSITION %w/w

Total aminoacids	17,0
N-Acetyl Thiazolidine-4 Carboxilic	1,00
Iron (Fe) chelated EDTA	0,18
Manganese (Mn) chelated EDTA	0,10
Copper (Cu) chelated EDTA	0,18
Zinc (Zn) chelated EDTA	0,10
Boron (B)	0,08
Density at 20 °C	1,25 g/ml
pH (1% water solution)	8,0 + 0,5

Biostimulant.
Special for Rice.

- **ESPECIALLY FOR RICE**
- **BETTER QUALITY**
- **INCREASES YIELD**

CHARACTERISTICS

Rice Complex is a liquid crop food supplement that activates the biochemical and enzymatic functions in the plant, improving the metabolic processes.

Rice Complex contains a naturally balanced mixture of Amino Acids available for proteins synthesis without energy uptake, saving biological energy. Furthermore contains natural bio promoters N-Acetyl Thiazolidine-4 Carboxylic Acid (ATCA) which through a slow enzymatic breakdown leads to the formation of proline which has a fundamental role to prevent the negative effects due to environmental stress (excessive heat, drought, poor fertilization, excessive rain fall etc.) and a mix of micronutrients: **Boron** favors pollen germination, fruit set and the growing of tissues. **Iron** and **Manganese** plays a fundamental role in chlorophyll synthesis and also in catalytic reactions. **Zinc** promotes the production of auxins, favors fruit enlargement, the transport of phosphates, formation of seeds and their ripening.

ACTIONS

- ***ACCELERATED PLANT'S GROWTH***
- ***BETTER STRESS RESISTANCE***
- ***FASTER AND IMPROVED DEVELOPMENT OF THE ROOT'S SYSTEM***
- ***IMPROVES PHOTOSYNTHESIS, RESPIRATION, SYNTHESIS OF CARBOHYDRATES, NUCLEIC ACIDS, LIPIDS, ETC***
- ***PROMOTE SEED GERMINATION, BLOOMING, SEED ENLARGEMENT***

SEED APPLICATION

Crops	Application
Rice Seeds	Before sowing leave the seeds for 24h in solution with 2cc for 1L water

FOLIAR APPLICATION

Crops	Application
Dry Rice	**600 - 800 ml/Ha - N°Applications: 2** First application 45 days after sowing repeat 70 days after sowing
Flooded Rice	**500 - 700 ml/Ha - N°Applications: 2** At germination stage repeat 10 days before tillering stage

Rice Complex is compatible with most products used in agriculture unless strongly alkaline. **Rice Complex** must be applied in the cooler daytime period.

CROPS

tangel AGRO

www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L -
1000L Plastic Bottle/IBC

IMPORTED FROM EU

tangelAGRO

DEFENSES

tangelAGRO

Datasheet

DEFENDER

Immune system enhancer

Foliar / Soil

ZERO RESIDUES

Systemic

COMPOSITION	%w/v
Total Nitrogen	4,8
Zinc (Zn) complexed	1
Manganese (Mn) complexed	2
Copper (Cu) complexed	2
Organic Complexant	

- **NATURAL ORGANIC COMPOUND**
- **EASY TRANSLOCATION**

Activator of Natural Defenses

IMMUNOLOGICAL ACTION

NUTRITIONAL ACTION

CHARACTERISTICS

DEFENDER is a natural organic product, capable of increasing the defense capacity of the plant. Its composition ,designed based on natural organic compounds of vegetable origin and selected micronutrients, stimulates a complete distribution throughout the whole plant and an immediate response from the plants's self-defense systems against external agents such as endogenous and exogenous fungi, agents such as ***Downy mildew*** in viticulture, ***Verticilium*** in olive trees, ***Phytophtora nicotianae*** in Horticultural Crops, highly aggressive ***Eutypa*** in grape vines and several fruit crops (Eutipiosis), ***Phellinus igniarius, Stereum hirsutum,*** producers of yesca in grape vines and grape arbours, pH. ***Citrophthora*** in Citrus Fruits, ***Botrytis***, ***Patristic pernospora*** in vegetable crops, several types of mildew and other fungi in vegetable crops, stone and pipfruit trees, tropical, subtropical and industrial crops, olive trees, dry fruits, flowers, ornamental plants, etc.

ACTIONS

NUTRITIONAL : PRECOCITY, QUALITY AND YIELD

INMUNOLOGICAL/DEFENSE: RESISTANCE TO FUNGIC DISEASES

APPLICATION

CROPS	Foliar Application
All crops	Wetting the whole plant, including its trunk, well. **200-400cc per 100 litres of water** As a preventive measure, 2-3 times throughout the vegetative cycle.
	Trickle Irrigation
Adult tree	Diluted in water before applying. **10cc/ Ft**
Plants	Diluted in water before applying. **5cc/ Ft**
Crop	Diluted in water before applying. **1cc/ Ft**

DEFENSES

tangelAGRO

www.tangelagro.com

AVAILABLE IN
1L - 5L - 20L - 1000L
Plastic Bottle / IBC

FERTILIZER
CE
IMPORTED FROM EU

tangelAGRO

FLOWERING & FRUIT SETTING

tangelAGRO

Datasheet

Bioregulator
Foliar

Ascophyllum nodosum extract

FIX

COMPOSITION	%w/v
Potassium (K_2O)	17,0
Phosphorous (P_2O_5)	11,0
Seaweed extract	10,0
Molybdenum (Mo)	4,0
Boron (B)	3,0
Manitol	0,24
Density: 1,34 g/cc	

- PLANT ORIGIN
- CONTAINS SEAWEED EXTRACT
- AFFECTS THE FLOWERING AND FRUIT SET

Flowering and Fruit Setting inducer

CHARACTERISTICS

FIX is an innovative product, designed by TANGEL AGRO, with action as bioregulator. It contains nutrients and organic components of vegetable origin. All of them favor the metabolic processes of the crop that supply energy to the plant. It is an improvement of the flowering and set of different crops.

FIX is a fertilizer rich in phosphorus, potassium, micronutrients (boron and molybdenum), and seaweed (Ascophyllum nodosum extract), designed to stimulate plants during the most critical processes of their generative phase: flower formation and fruit setting.

FIX reactivates the cellular processes that favor the mooring of the fruits, avoiding the fruit fall. In the elaboration of FIX, processes are used that keep all active components soluble, for immediate uptake by the plant.

ACTIONS

- *INCREASES FRUIT SIZE AND UNIFORMITY*
- *INCREASES COMMERCIAL PRODUCTION AND REDUCES FRUIT LOSS*
- *AVOID PREMATURE FRUIT DROP*
- *INCREASES POLLEN QUALITY*
- *STIMULATES THE FRUIT SETTING*

Crops	Rates per Application (Foliar*) Stages and Recommendations
FRUIT TREES	**3 - 4 l/ha /** 3-4 treatments starting from fruit-set each 10-15 days
Stone fruit	**3.5 - 4.5 l/ha /** 1st appl: from stone hardening | 2nd appl: 8-10 days after 1st treatment | 3rd appl: 8-10 days after 2nd treatment
Apple	**3.5 - 4.5 l/ha /** From 20 mm fruit size 3-4 treatments each 12-15 days BBCH 71-72
Pear	**3.5 - 4.5 l/ha /** From 20 mm fruit size 3-4 treatments each 12-15 days.
Kiwi Fruit	**4.0 - 4.5 l/ha/** 1st appl: after fruit-set | 2nd appl: 15 – 20 days after 1st treatment | 3rd appl: 15 – 20 days after 2nd treatment |4th appl: 30 days after 3rd treatment
Clementine, Tangerine	**3.5 - 4.5 l/ha /** From 15-20 mm fruit size 3 treatments each 15-18 days
TABLE GRAPE	**3.5 - 4.5 l/ha /** Fruit size increasing: 1st appl: berry at size 8-10 mm| 2nd appl: berry at size 15-16 mm| 3rd appl: veraison. Rachis elongation: 1st appl: inflorescences clearly visible BBCH 53| 2nd app: before flowering BBCH 57| 3rd appl: after flowering BBCH73
GRAPEVINE	**3.5 - 4.5 l/ha /** Fruit size increasing: 1st appl: after fruit set 2-3 treatments each 10-15 days
OLIVE TREES	**3.5 - 4.5 l/ha /** Starting from stone lignification: 2 treatments also with agrochemical treatments
VEGETABLES	**3.5 - 4.5 l/ha /** 3-4 treatments starting from fruit-set each 10-15 days
STRAWBERRIES AND SMALL FRUITS	**3.5 - 4.5 l/ha /** 3-4 treatments starting from fruit-set each 10-15 days

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

FLOWERING & FRUIT SETTING

tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 20L
Plastic Bottle

IMPORTED FROM EU

tangelAGRO

Datasheet

Bioregulator
Foliar /Soil

FIX SOLID

COMPOSITION	%w/w
Phosphorous (P_2O_5)	9,5
Molybdenum (Mo)	10
Boron (B)	8
Potassium (K_2O)	12,6
Aminoacids	5
Presentation: soluble crystalline	

- ***BIOREGULATOR***
- ***INCREASES FLOWERING, FRUIT SET AND FATTENING OF FRUITS***
- ***INCREASES YIELD***

Flowering and Fruit Set inducer

CHARACTERISTICS

FIX SOLID is a special product based on Molybdenum and Boron of high concentration, enriched with assimilable phosphorus. With synergic and stimulating effect of flowering and fruit set, which allows favoring the phase of growing of the fruits.

FIX SOLID applications also corrects deficiencies of nutrients contained, avoiding physiopathies and crop yields. Both Boron and Molybdenum are essential in forced crops of multiple flowering whose fruit setting and growing phases overlap in time.

ACTIONS

- ***REDUCES THE ABSCISSION OF FLOWER BUDS AND FRUIT DROP AT THE BEGINNING OF FRUIT SET.***
- ***FAVORS THE DEVELOPMENT, GROWTH AND FATTENING OF FRUITS.***
- ***INDUCES FLOWERING***
- ***INCREASES POLLEN QUALITY***
- ***STIMULATES THE FRUIT SETTING***

APPLICATION

Crops	Foliar application
Vegetables cucurbitae	**100 – 150 g/hl** With a total of 2-3 applications; starting in pre-flowering before appearance of the first flower bouquet until fruit setting, repeating applications every 12-15 days.
Citric trees, fruit trees, olive tree and vine	**100 – 150 g/hl** In fruit trees and citric trees, to encourage setting and development of the fruit, application in pre-flowering, petals fall, end of setting and growth. In olive tree, application before flowering and during fruit growth. In vine, application before flowering.
Ornamental plants	**100 – 150 g/hl** Application in pre-flowering to encourage flowering and to avoid abscission of flower buttons.
	Drip irrigation
Vegetables cucurbitae	**1-1,5 Kg / Ha** Application dose by irrigation since beginning of flowering until the end of setting.
Citric trees, fruit trees, olive tree and vine	**2-3 Kg / Ha** Application dose by irrigation starting applications before flowering.
Ornamental plants	**1-1,5 Kg / Ha** Application dose by irrigation to encourage flowering and to avoid abscission of flower buttons. Begin applications in pre-flowering.

It is compatible with most of the phytosanitary products and phytonutrients used in agriculture. However, it is necessary to make a previous compatibility and selectivity test of the products to apply.

FLOWERING & FRUIT SETTING

tangelAGRO www.tangelagro.com

AVAILABLE IN
1Kg - 5Kg - 25Kg Bag
500Kg Bigbag

IMPORTED FROM EU

tangelAGRO

HUMIC ACIDS

tangelAGRO

Datasheet

MUMIC

Biostimulant
Foliar / Soil

COMPOSITION	%w/w
Total Humic Extract	42,0
Fulvic Acid	38,0
Humic Acis	4,0
Nitrogen (N)	3,5
Potassio (K_2O)	5,0

Liquid fertilizer of high concentration of Humic acids

- **VEGETABLE ORIGIN**
- **HIGHER YIELD**
- **TOTAL MISCIBILITY**

CHARACTERISTICS

Mumic is a liquid humic acid corrector made from vegetable matter. **Mumic** is a completely soluble microfiltered product.

When Mumic is added to the soil it stimulates the root and micro organism growth, unlocking the nutrients that are in an unassimilable form for the plant.

Mumic foliar application improves the uptake and transport of nutrients as well as of other compounds (hormones, vitamins, etc...). The application of **Mumic** is safe and easy throughout all stages of plant growth, from planting to harvesting.

ACTIONS

- *IMPROVES GERMINATION*
- *INCREASES ROOT DEVELOPMENT*
- *HIGHER YIELD*
- *INCREASES THE FERTILIZERS UPTAKE*

SOIL APPLICATION

Crops	Season	Annual dosage
Citrus Fruits	From budding to mid-cycle	100-130 cc/tree
Fruit Trees	From budding to mid-cycle	100-150 cc/tree
Strawberries	Throughout the whole cycle	100 L/Ha
Cut Flowers	Throughout the whole cycle	100-120 L/Ha
Open-air Horticultural Crops	Throughout the whole cycle	80-100 L/Ha
Greenhouse Horticultural	Throughout the whole cycle	100-120 L/Ha
Maize	In the first irrigation	50-80 L/Ha
Olive Trees	Throughout the whole cycle	100-150 cc/tree
Pear Trees	From budding to mid-cycle	150-200 cc/tree
Wine Grapes	From budding to mid-cycle	30-50 L/Ha

FOLIAR APPLICATION

Crops	Applications	Annual dosage
Lawn	5-6 applications	5L / 1.000 m2
Ornamental	5-6 applications	100 cc / 20 Lts
Vegetable	3-4 applications	1-2 L / 200 Lts

GENERAL DOSAGE 2-4 L/200 L

SHAKE THE MUMIC CONTAINER WELL BEFORE OPENING.
Keep MUMIC in the original container. Do not store below 0°C or above 40°C. When stored under normal storage conditions the product will keep its physical, chemical and biological properties for at least 3 years.

AVAILABLE IN
1L - 5L - 10L - 20L -
1000L Plastic Bottle/IBC

IMPORTED FROM EU

NEW

tangelAGRO

Datasheet

MUMIC AMYN

Biostimulant
Foliar / Soil

COMPOSITION	%w/v
Total Humic extract	14,0
Humic Acids	14,0
Free Amino Acids	14,0
Polysaccharides	8,0
Density: 1,15 g/cc	

Liquid fertilizer of high concentration of Fulvic acids and aminoacids

- BIOAVAILABILITY
- HIGHLY SOLUBLE
- SMALL PARTICLE SIZE
- STABILITY

CHARACTERISTICS

MUMIC AMYN is an extremely bioactive growth promoting and soil improving agent in liquid form with a high concentration of natural fulvic acids. Kulvic Amyn is 100% water-soluble and suitable for all crop and garden cultures for foliage and soil application. It may be used alone or in combination with soluble fertilizers and currently, plant protection agents.

MUMIC AMYN is a natural and versatile bio stimulant. It is produced trough a bacterial fermentation process using plant raw material.

MUMIC AMYN contains a complex array of plant based soil biostimulants including natural phytohormones (cytokinins, auxinsm gibberellins), polyamines, antioxidants, betaines, peptides, secondary metabolites, polysaccharides, auxins, vitamins, carbohydrates and organic mater to impove nutrient availability in soil, resulting in a hight uptake in pants.

ACTIONS

- *OPTIMUM VIGOUR CROP*
- *INCREASES STRESS TOLERANCE*
- *PROMOTES ROOT GROWTH*
- *IMPROVE THE NUTRIENTS UPTAKE AND TRANSPORT*
- *INCREASES THE MICROBIAL ACTIVITY IN THE SOIL*
- *YIELD AND QUALITY*

APPLICATION

Foliar: 200-300 mls/100 water
Fertirrigation: Drip: 5-10 L/ha

CROPS	Season and anual dosage
Blueberries and Cranberries	10L/ha Apply 3 times; budding, fruit setting and fruit sizing.
Cereals	Minimum dose: 4L/ha once. Can be applied mixed with herbicides. In summer cereals, apply at 35-40 days after seeding.
Fruiting vegetables and cut flowers	4-6 applications from the beginning of the crop, depending on stress and development.
Greenhouse vegetable	Apply through the cycle of the crop of the crop every 7-14 days; foliar or fertigate.
Orchards, Citrus, Subtropical and Olives	Apply and bud break, pre-bloom and once the fruit setting is complete. Use when crops stressed.
Vegetable	Leafy crops: Apply regularly in early stage of growth.
Vines	Apply during vegetative growth; repeat 2 to 3 times from post berry set until the beginning of ripening.

Foliar application enhance the effect of insecticides and fungicides. For crop specific programs contact our technical support.

AVAILABLE IN
1L - 5L - 10L - 20L -
1000L Plastic Bottle/IBC

IMPORTED FROM EU

tangelAGRO

Datasheet

MUMIC EQUAL

Biostimulant
Foliar / Soil

COMPOSITION	%w/w
Total Humic extract	20
Humic acids	10
Fulvic acids	10
Potassium (K_2O)	8

Humic and Fulvic acids.
Liquid fertilizer

- **LEONARDITE ORIGIN**
- **BALANCED COMPOSITION HUMIC/FULVIC ACIDS**
- **TOTAL SOLUBILITY**

CHARACTERISTICS

Mumic Equal is a mixed product of humic acids and fulvic acids from leonardite. The balanced proportion of these two groups of organic molecules, with biostimulating properties of the plant metabolism, combines the beneficial properties of humic and fulvic acids.
As a consequence of the quality and purity of the original material in **Mumic Equal** and its manufacturing process, a homogeneous product of maximum purity and without insoluble precipitates is achieved.

ACTIONS

- *INCREASES THE CAPACITY OF SOIL CATION EXCHANGE*
- *STIMULATES THE DEVELOPMENT OF THE BENEFICIAL BACTERIAL POPULATION OF THE SOIL*
- *STIMULATES RADICULAR DEVELOPMENT*
- *INCREASES UPTAKE OF NUTRIENTS BY THE PLANT*

CROPS	Dosage L/Ha	APPLICATION
Citrus Fruits	30-80	Apply in sprouting of spring-summer, in pre-flowering, in fruit setting and fattening.
Apple and stone fruits	45-75	Apply in pre-flowering, fruit etting and fattening.
Vegetables	40-70	Apply in transplant and along the growing cycle.
Tropical fruit trees	40-80	Perform 40% of the application with the basal dressing and the rest along the crop
Herbaceous and woody crops	20-40	Apply after each cut
Olive trees and vines	20-45	Apply before sprouting, in pre-flowering and at the beginning of winter.
Flowers and ornamentals	5-60	

HUMIC ACIDS

tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L -
1000L Plastic Bottle/IBC

IMPORTED FROM EU

tangelAGRO

Datasheet

Biostimulant
Foliar / Soil

MUMIC SOLID

COMPOSITION	%w/w
Total Humic extract	85,0
Humic acids	74,0
Fulvic acids	11,0
Potassium (K_2O)	11,0

Solid fertilizer of high concentration of Humic acids

- LEONARDITE ORIGIN
- APPROPIATE PROPORTION HUMIC/FULVIC ACIDS
- TOTAL SOLUBILITY
- HIGH CONCENTRATION

CHARACTERISTICS

Mumic Solid is a soluble solid product from Leonardite. With high values of total humic extract. Its potassium form confers high solubility and easy incorporation to the soil-plant system.
Mumic Solid incorporates adequate levels of humic and fulvic acids in its composition, which makes it suitable as a biostimulant capable of exerting an important action on cellular respiration of the vegetable, which translates into important actions.

ACTIONS

- YIELD AND QUALITY
- INCREASES WATER RETENTION CAPACITY
- INCREASES BENEFICIAL MICROORGANISM OF SOIL
- BETTER SOIL CATION EXCHANGE CAPACITY (CEC)
- ENHANCES EFFICIENCY OF FERTILIZERS

APPLICATION

Soil Application	Dosage per Hectare and application
Horticultural Greenhouse (horticultural crops, ornamental plants...) **Open fields** (horticultural crops, potatoes...)	**Sandy Soil:** 100 - 200 g/1.000 m² **Clayey Soil:** 75 - 150 g/1.000 m² **Applications during the growth stage:** Every 15 days.
Fruit Trees (apple trees, citrus fruits, bananas...)	**Sandy Soil:** 200 - 400 g/Ha **Clayey Soil:** 150 - 300 g/Ha **During the growth s.:** Every 15 days.
Sprinklers and pivot system: Cereals, green beans, rice...	**Sandy Soil:** 800 - 1.200 g/Ha **Clayey Soil:** 500 - 800 g/Ha **During the growth s.:** 2-4 applications.
Sprinklers and pivot system: Fodder crops, alfalfa, etc...	**Sandy Soil:** 1.500 - 2.000 g/Ha **Clayey Soil:** 1.000 - 1.500 g/Ha **During the growth s.:** After every mowing.

Soil Application	Dosage per Hectare and application
Gardens: Lawns (Sprinkler systems)	**Sandy Soil:** 20 - 40 g/100 m2 **Clayey Soil:** 15 - 30 g/100 m2 **During the growth s.:** After every mowing.
Gardens: Trees, shrubs (trickle irrigation)	**Sandy Soil:** 100 - 200 g/Ha **Clayey Soil:** 75 - 150 g/Ha **During the growth s.:** Every 4 weeks.
FOLIAR APPLICATION For all crops	150 - 300 g/Ha
ROOT APPLICATION	30 g/20 L water/Before transplanting
SEED TREATMENT	200 g/100 Kg little seed/Before sowing 125 g/100 Kg big seed/Before sowing
IRON CHELATE Enhancer	5-8 g/50 g Chelate 6%

HUMIC ACIDS

tangelAGRO

www.tangelagro.com

AVAILABLE IN
1Kg - 5Kg - 25Kg
Aluminium Bag

IMPORTED FROM EU

tangelAGRO

LIGNOSULFATES

NEW

tangel AGRO

Datasheet

LIGNO SULFO NATES LIGNO

NATURAL CHELATING AGENT
(LIGNOSULFONATE ACID)

MACRO

LIGNO Mg

COMPOSITION	%W/W
Magnesium oxide (water-soluble)	7,0
Magnesium oxide (complexed with LS)	7,0

LIGNO Ca + B

COMPOSITION	%W/W
Calcium (CaO)	12,50
Boron (B)	0,20

LIGNO Mg + Fe

COMPOSITION	%W/W
Magnesium (MgO)	15,00
Iron (Fe)	4,00

LIGNO Ca + Mg + Fe

COMPOSITION	%W/W
Calcium (CaO)	2,00
Magnesium (MgO)	2,00
Iron (Fe)	1,00

MICRO

LIGNO Cu

COMPOSITION	%W/W
Copper (Cu)	6,0

LIGNO Fe

COMPOSITION	%W/W
Iron (Fe)	6,0

LIGNO Mn

COMPOSITION	%W/W
Manganese (Mn)	10,0

LIGNO Zn

COMPOSITION	%W/W
Zinc (Zn)	9,0

LIGNOSULFATES

tangel AGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

NEW

tangelAGRO

Datasheet

LIGNO SULFO NATES

LIGNO

NATURAL CHELATING AGENT
(LIGNOSULFONATE ACID)

MICRO

LIGNO Mn + Zn

COMPOSITION	%W/W
Manganese (Mn)	4,50
Zinc (Zn)	4,50

LIGNO Mn + Zn + Mg

COMPOSITION	%W/W
Manganese (Mn)	10,0
Zinc (Zn)	10,0
Magnesium (MgO)	3,0

LIGNO Fe + Mn + Mo + Zn

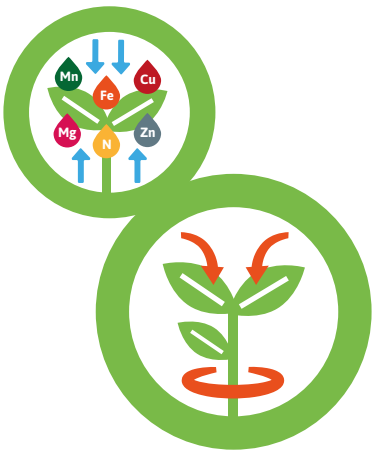
COMPOSITION	%W/W
Iron (Fe)	4,50
Manganese (Mn)	5,0
Molybdenum (Mo)	0,10
Zinc (Zn)	7,0

LIGNO Mix

COMPOSITION	%W/W
Manganese (Mn)	2,50
Zinc (Zn)	2,50
Iron (Fe)	2,00
Copper (Cu)	0,30
Boron (B)	0,40

LIGNO BENEFITS

- Improves availability of soil nutrients.
- Compatibility with fungicide and insecticides.
- Single element and elements combination available.
- Healthier plants endure adverse weather, disease and pest conditions.
- Excellent source of organic Carbon and Sulfur.



LIGNO CAN BE APPLIED TO VEGETABLES, CITRUS, FRUITS, NUTS, ORNAMENTALS AND TURF FOR CORRECTION OR MAINTENANCE OF PLANT NUTRITION

LIGNOSULFATES

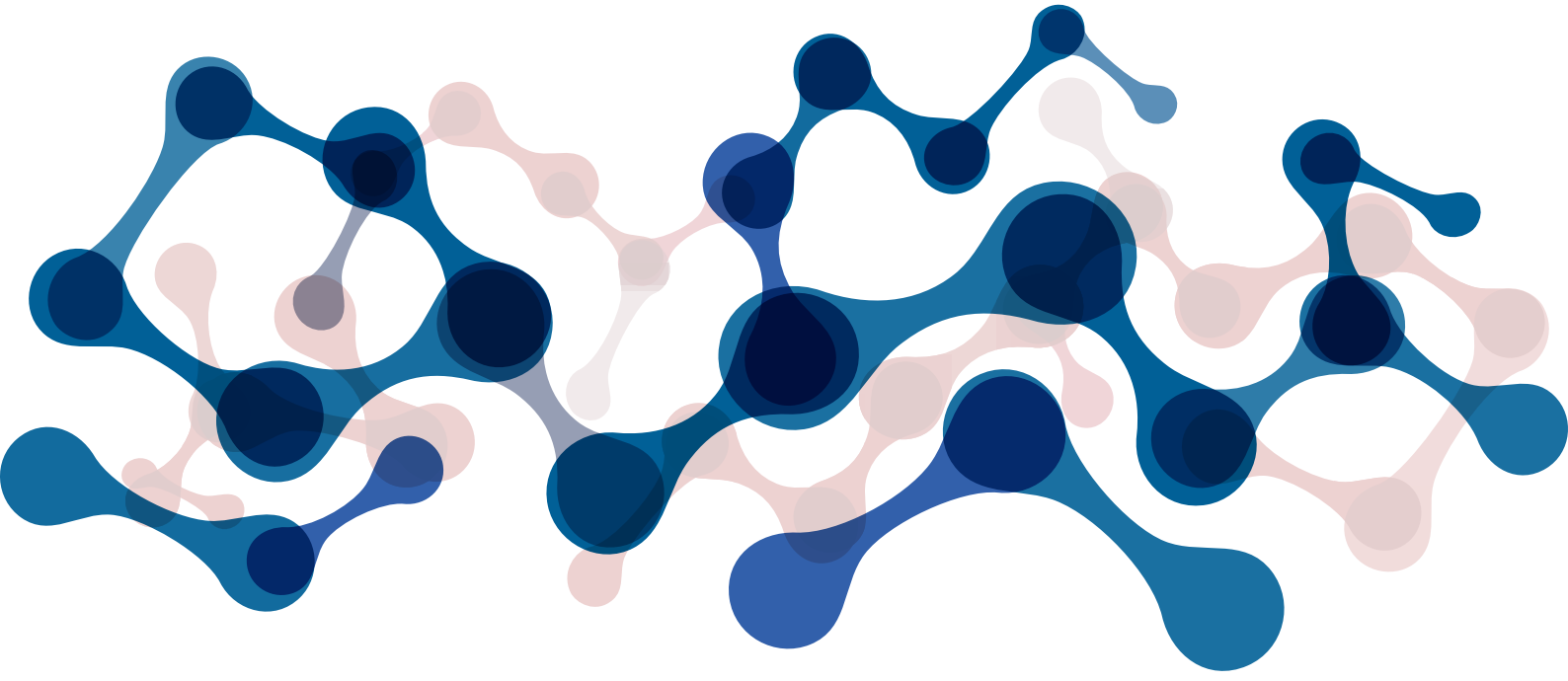
tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

tangelAGRO

MACRONUTRIENTS



NEW

tangel AGRO

Datasheet

Nutrient corrector
Foliar / Soil

CAB Plus

COMPOSITION	%w/v
Calcium (CaO)	12,0
Boron (B)	1,24
Density: 1,38 g/cc	

- CALCIUM AND BORON CORRECTOR
- REDUCES FRUIT DROP
- PRESERVATION IMPROVEMENT
- LESS PHYSIOPATHY INCIDENCE
- BETTER FLOWERING AND FRUIT SET

Immediate uptake of Calcium and Boron.

CHARACTERISTICS

CaB Plus is a **CALCIUM** and **BORON** deficiency corrector. Calcium and Boron in CaB Plus are quickly uptaked and translocated to the growing points of the plant.
Calcium is essential for the formation of the cell wall in plant cells. It is involved in plant respiration, translocation of photosynthates from leaves to fruiting organs, fruit setting, water absorption, among other vital functions.
Boron enhances cellular activity and is necessary for protein synthesis and sugar transport. It plays indispensable roles in metabolic reactions associated with flower setting and fruit ripening.
CaB Plus is recommended for maintaining appropriate levels of calcium and boron in the plant, preventing deficiencies or imbalances in their assimilation, thereby avoiding significant issues that may arise.

ACTIONS

- BLOSSOM END ROT (APICAL NECROSIS) IN TOMATOES, PEPPERS, EGGPLANTS AND WATERMELONS.
- WATERCORE AND GLASSINESS IN MELONS.
- INTERNAL LEAF AND CURB DEFECTS IN CAULIFLOWER.
- INTERNAL BROWNING OF BRUSSELS SPROUTS. LEAF TIPBURN IN SPINACH, LETTUCE, CELERY, CABBAGE AND STRAWBERRY.
- INTERNAL BROWNING, HOLLOWHEART, STORAGE DISORDERS, AND POOR SKIN SET IN POTATOES.
- BITTER PIT, CORK SPOT, CRACKING, INTERNAL BROWNSPOT, AND WATER CORE IN APPLES.
- HYPOCOTYL NECROSIS IN BEANS AND OTHER LEGUMES.

APPLICATION

Crops

Horticulture:	Tomato, Pepper, Cucurbitis, Lettuce, Strawberry, Celery, Cabbage, Broccoli, etc.
Fruit crops:	Apple, Pear, Peach, Cherry, Plum, Citrus, Grapes.
Tropical fruits:	Banana, Pineapple, Mango, Durian, Papaya, Cocoa, Guava.
Field crops:	Cotton Potato, Sugar beet, Rice, Turf, Pastures.

Dosage

FOLIAR:

Horticulture and field crops	Apply 3-6 ml/L or 3-6 L/Ha
Fruit/Vine crops	Apply 5-10 ml/L or 5-10 L/Ha

Crops

SOIL:

Drip or localized irrigation	Apply 15-30 L/Ha

MACRONUTRIENTS

tangel AGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

tangelAGRO

Datasheet

CALMA UP

Nutrient corrector
Foliar / Soil

Optimising Genetic Potential

ogp

Liquid Organic Ca/Mg/B/Si complex

COMPOSITION	%w/v
Calcium (CaO)	15
Magnesium (Mg)	2
Boron (B)	0,5
Silicon (SiO_3)	1

- **ORGANIC Ca, Mg, B and Si**
- **DEFICIENCIES CORRECTOR**
- **SUITABLE FOR ALL CROPS**

CHARACTERISTICS

CALMA UP is a completely chelated fertilizer using complexes derived from natural plant sources:

Gluconic acid. It is designed to address calcium (Ca) and magnesium (Mg) deficiencies that often occur at the same time.

Boron is addded in the ideal ratio to improve the mobility of calcium in the plant and improves the uptake of potassium.

CALMA UP is Organic Ca/Mg/B/Si complex for correction of nutrients deficiencies.

ACTIONS

- *IMPROVES THE FIRMNESS OF VEGETAL TISSUES AND FRUIT.*
- *INCREASES SHELF-LIFE.*
- *PREVENTS DISORDERS DUE TO CALCIUM DEFICIENCY.*
- *YIELD AND QUALITY - FLOWERING AND FRUIT SET.*
- *CALCIUM TRANSPORT AND SKIN QUALITY.*
- *POLLEN QUALITY AND POLLEN TUBE DEVELOPEMENT.*
- *BUD AND SHOOT DEVELOPMENT QUALITY IN HOPS.*

APPLICATIONS

Crops	Aim/Problem-Recommendations	Time
Cereals	Yield, Quality / **1-2 times 0,5 – 1 L/ha**	From 3-leaf-stage to the end of tillering.
Pasture Land	Yield, Quality / **1- 4 times 0,5 – 1 L/ha**	In spring from the start of vegetation
Potatoes	Internal quality / **1-2 times 1 L/ha**	From beginning of row closure.
Legumes (Soy included)	Flowering, fruit set / **2 times 1 L/ha**	From 6-leaf stage
Maize	Energy density, grain fill, grain yield, pollen quality. **2 L/ha**	From 4-leaf stage
Oilseed rape	Even flowering and maturation, yield. / **1-2 times 2-3 L/ha**	In spring from the start of vegetation through to the beginning of flowering
Sunflowers	Pollen quality / **2 L/ha**	From 4-leaf stage.
Sugar beet	Quality, yield, to prevent heart rot and dry rot. **1-2 times 2-3 L/ha**	From 6-leaf stage.
Strawberries	To prevent deformed berries, flowering, fruit set. **1-2 times 1L/ha**	From green buds.
Pome fruit	Calcium transport, fruit set, pollen tube development, skin quality **1-2 times 1 L/ha (and 1-2 times 1 L/ha from walnut size)**	First pink to beginning of flowering.
Stone fruit	Flowering, fruit set / **1-2 times 1 L/ha**	From the beginning of flowering.
Soft fruit	Flowering, fruit set / **1-2 times 1 L/ha**	Before flowering.
Table grapes	Even maturation. Flowering, fruit set. / **2 times 1 L/ha**	Enlargement of the inflorescences to the beginning of flowering
Wine grapes	Even maturation. Flowering, fruit set. / **2 times 1 L/ha**	Enlargement of the inflorescences to the beginning of flowering.
Cabbages, leafy, vegetables and bulb vegetables	To prevent heart rot in cabbage, lettuce, etc., internal quality / **2-3 times 2-3 L/ha**	Once sufficient leaf mass has developed.
Asparagus	Quality (cracks, hollow stalks, skin quality) / **2-3 times 2-3 L/ha**	Once sufficient leaf mass has developed.
Root vegetables and tubers	Quality (cracks, hollow tubers, internal browning) **2-3 times 2-3 L/ha**	Once sufficient leaf mass has developed.

MACRONUTRIENTS

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AVAILABLE IN
1L - 5L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

NEW

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Datasheet

Ca Fertilizer
Foliar / Soil

CAL AMYN

COMPOSITION	%w/w
Calcium (CaO)	33,60
Vegetal Origin Amino Acids	6,00
Total Nitrogen (N)	2,50
Organic Nitrogen (N)	1,80

Ca Fertilizer with Aminoacids

CHARACTERISTICS

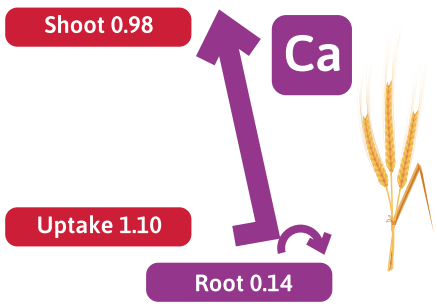
CAL AMYN is a product based on plant amino acids and CaO, highly assimilable by plants, just a few hours after application. **CAL AMYN** is a highly concentrated calcium corrector, complexed, helps to develop cell walls and strengthens their structure. It should preferably be used during the development of the fruits to prevent and control stated caused by deficiencies or imbalances in the uptake of calcium. The plant-origin amino acids included in its formulation enhance the absorption and transport of calcium (Ca), a nutrient with inherently limited mobility. **CAL AMYN** is Source of Calcium (Ca) assimilation.

BENEFITS

- PROTECTS CROPS AGAINST BITER PIT AND SKIN/FLESH DISCOLORATION.
- REINFORCES CELL STRUCTURE, REDUCING VULNERABILITY TO MICROBIAL THREATS.
- ACHIEVES UNIFORM DISTRIBUTION OF PROTECTIVE AGENTS ON LEAVES.
- ACTS SWIFTLY FOR ENHANCED FRUIT QUALITY AND PROLONGED SHELF LIFE.

CAL AMYN protects against biter pit as well as discoloration on the skin and flesh. It also strengthens cell structure, which reduces the penetration of microbial and fungal pathogens. The effectiveness of crop protection agents can also be increased.
CAL AMYN is distributed uniformly over the leaf and acts very rapidly on these parts of the plant. The result is a high proportion of marketable fruit of significantly improved quality. CAL AMYN improves the shelf life of the fruit.

Recirculation within the Plant
Uptake and redistribution of cationic elements in rye seedlings



APPLICATION

Usage Recommendations:

CAL AMYN is highly effective, and the prescribed dosage is more than sufficient. However, we recommend its application during the cooler parts of the day for optimal effectiveness. CAL AMYN can be used on all types of crops, including vegetables, orchards, and large-scale agriculture.

Crops: Suitable for all types of crops.

Foliar Application Dosage: 150-300g/hl or Soil Application Dosage: 5.25Kg/ha/irrigation.

CAL AMYN is recommended for urgent cases of deficiency in these nutrients, enabling normal plant development and a rapid resumption of plant biochemical processes. It is particularly suitable for nutrient-sensitive crops such as citrus, peach, grape, pear, wheat, beans, industrial peas, corn, and coton, as well as for all field crops.

MACRONUTRIENTS

tangelAGRO www.tangelagro.com

AVAILABLE IN
1Kg - 5Kg - 20Kg Bag
500Kg Bigbag

FERTILIZER
CE
IMPORTED FROM EU

tangelAGRO

Datasheet

NPK Gel Fertilizer
Foliar / Soil

FLOWKI YELLOW

NPK Gel Fertilizer
Foliar / Soil

FLOWKI BLUE

NPK Gel Fertilizer
Foliar / Soil

FLOWKI GREEN

NPK Gel Fertilizer
Foliar / Soil

FLOWKI RED

CHARACTERISTICS

FLOWKY is a formulated nutritional product and not just a simple mixture of raw materials, as are most of NPK fertilizers in powder form.

FLOWKY has an uniform and simultaneous solubility of all the nutrients, during use, while avoiding sedimentation in the storage containers of the nutrient solution. In contrast, common NPK water soluble powder fertilizers, which are produced through a mixture of raw materials, have increase variability in grain size that results in a non-uniform dilution of nutrients, since the smallest grains are dissolved firstly.

The conductivity and the salinity index are maintained in very low levels so that the soil will not be burndened with undesirable, salt concentration.

ACTIONS

- IMPROVES ROOT DEVELOPEMENT.
- IMPROVES GROWTH, FRUIT SETTING AND YIELD.
- INCREASES BUD AND TUBER NUMBERS.
- BOOST CELL DIVISION AND EXPANSION, RESULTING IN BIGGER FRUITS.
- SAFETY, COMFORT AND EASY HANDLING.

MACRONUTRIENTS

tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

tangelAGRO

Datasheet

FLOWKI FORMULATIONS

FLOWKI YELLOW

27-27-27+TE
22-22-22+TE
20-20-20+TE

FLOWKI BLUE

30-10-10+TE
28-11-14+TE

FLOWKI GREEN

10-50-10+TE
13-40-13+TE
12-65-05+TE

FLOWKI RED

12-05-42+3MgO+TE
04-40-55+TE
10-10-50+TE

FLOWKI + AMINO ACIDS

45-00-00+TE+3AA
20-20-20+TE+3AA

FLOWKI + FULVIC ACIDS

20 20 20 +TE+6,5% FULVIC ACIDS

FLOWKI + MACRONUTRIENTS

18-11-59+TE+2MgO
20-20-20+TE+4,7MgO
12-05-42+3MgO+TE

FLOWKI + SEAWEED

20-20-20+TE+5% SEAWEED

MACRONUTRIENTS

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AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

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Datasheet

NPK Gel Fertilizer
Foliar / Soil

FLOWKI YELLOW

22 22 22 + Te

COMPOSITION	%w/v
Total Nitrogen (N)	22,00
Phosphorus (P_2O_5)	22,00
Potassium (K_2O)	22,00
Boron (B)	0,016
Iron (Fe)*	0,047
Copper (Cu)*	0,016
Manganese (Mn)*	0,016
Zinc (Zn)*	0,016

*Chelated with EDTA

Balanced NPK Gel Fertilizer with trace elements

- PROVIDES ALL NECESSARY MACRONUTRIENTS
- HIGH CONCENTRATION PRODUCTS, LOW SALINITY AND CONDUCTIVITY
- EFFICIENCY AND GUARANTEED RESULTS.
- SAFETY, COMFORT AND EASY HANDLING.

CHARACTERISTICS

Flowki Yellow is a fertilizer NPK formulation with trace elements. It is specially formulated as a gel that presents an optimum balance to supplement the nutrition of crops during the vegetative growth stages and fruit stages. Also contains the trace elements to the plant more needs in the form of chelates or mineral. In general, **Flowki Yellow** can be used in all types of crops, especially if you want to boost the development of the vegetative growth and especially when outbreaks or organs are developing.

Nutrient content. Based on statistics and various analyzes it is shown that fertilizers in GEL form have a correct and precise nutrient content. In some solid fertilizers most of their levels deviate from the actual nutrient content.

High uptake rate. The fertilizers in the form of gel can be applied to the leaf and be uptaked directly through stomata, which greatly increases the speed of uptake avoiding the problems of uptake in the soil due to, among others, acidity, soil temperature or excess salts, due to not knowing these variables.

ACTIONS

- *BALANCED CONTRIBUTION OF NITROGEN, PHOSPHORUS AND POTASSIUM THROUGHOUT THE CROP CYCLE.*
- *IMPROVES FRUITTING AND YIELD.*
- *LAMINAR DISPOSITION ON THE FOLIAR SURFACE. ENHANCE NUTRIENT UPTAKE.*
- *IMPROVE VEGETATIVE GROWTH.*

APPLICATION

Crops	Dosages		Applications
Cereals	2.5 l/ha	600 ml/100l	1-2 applications
Citrus	1.5-3.0l/ha	100-200 ml/100l	2-3 applications with 15 day intervals
Fruits and Vines	1.5-3.0 l/ha	100-200 ml/100l	Apply before flowering. Repeat every 15 days
Ornamentals	1.0-2.0 l/ha	50-100 ml/100l	Use low rate on young or delicate plants
Potatoes	2.0-3.0 l/ha	400 ml/100l	1-2 applications early in crop cycle
Sugar Beet	3.0 l/ha	500 ml/100l	1-2 applications early in crop cycle
Vegetables	2.0-2.5 l/ha	200 ml/100l	2-4 applications once transplants established
Rice			
Seed nursery	3.0 l/ha	300 ml/100l	1-2 applications - before transplanting
Root soak	-	200 ml/100l	Soak roots prior to transplanting
Post transplant	-	200 ml/100l	Apply at tillering

*FLOWKI can be combined with almost all the fertilizers and pesticides. In case of doubt we recommend a trial or consult our technical department.

MACRONUTRIENTS

tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

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Datasheet

FLOWKI BLUE

30-10-10+TE

NPK Gel Fertilizer
Foliar / Soil

COMPOSITION	%w/v
Total Nitrogen (N)	30,00
Phosphorous Oxide(P_2O_5)	10,00
Potassium Oxide (K_2O)	10,00
Boron (B)	0,016
Iron (Fe) chelating agent EDTA	0,047
Copper (Cu) chelating agent EDTA	0,016
Manganese (Mn) chelating agent EDTA	0,016
Zinc (Zn) chelating agent EDTA	0,016
Molybdenum (Mo)	0,016

NPK Gel Fertilizer with trace elements

- ***BOOST CELL DIVISION AND EXPANSION, RESULTING IN BIGGER FRUITS.***
- ***SAFETY, COMFORT AND EASY HANDLING.***

- ***IMPROVES GROWTH, FLOWERING & YIELD***
- ***HIGH CONCENTRATED PRODUCT***
- ***EFFICIENCY AND GUARANTEED RESULTS***
- ***SAFETY, COMFORT AND EASY HANDLING***
- ***STABILITY***

CHARACTERISTICS

FLOWKI BLUE is a formulated nutritional product and not just a simple mixture of raw materials, as are most of NPK fertilizers in powder form.

FLOWKI BLUE has an uniform and simultaneous solubility of all the nutrients, during use, while avoiding sedimentation in the storage containers of the nutrient solution. In contrast, common NPK water soluble powder fertilizers, which are produced through a mixture of raw materials, have increase variability in grain size that results in a non-uniform dilution of nutrients, since the smallest grains are dissolved firstly.

The conductivity and the salinity index are maintained in very low levels so that the soil will not be burndened with undesirable, salt concentration.

Application is suitable for different crops: fruit trees, coffee, olive trees, vegetable crops, industrial crops, meadows, etc. It can be used in drip irrigation, foliar application and flood irrigation.

ACTIONS

- ***IMPROVES ROOT DEVELOPEMENT.***
- ***IMPROVES GROWTH, FRUIT SETTING AND YIELD.***
- ***INCREASES BUD AND TUBER NUMBERS.***

APPLICATIONS

CROPS	SOIL (L/ha)	FOLIAR (mL/100L)	APPLICATIONS DETAILS
Alfalfa	-	250-300	5 applications from 2nd cut
Cotton	-	200-300	2-3 applications(from 4th leave to the harvest)
Citrus	4-5	200-300	3-4 applications (sprouting, preflowering, setting and fattening)
Fruits and Vine	3-5	200-300	2-4 applications (from sprouting until bud diferentiation)
Cereals	4-5	100-300	1-2 applications
Vegetables	4-6	200-300	3-4 applications, each 10-14 days
Ornamentals	2-3	100-200	3-5 applications according crops necessity
Sugar beet	4-5	200-300	2-3 applications
Olive tree	5-10	300-400	3 applications (beginning of sprouting, stone hardening, fattening)
Potatoes	3-5	300-400	1-2 applications at the beginning of the crop

FLOWKI can be combined with almost all the fertilizers and pesticides. In case of doubt we recommend a trial or consult our technical department.

MACRONUTRIENTS

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AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

tangel AGRO

Datasheet

NPK Gel Fertilizer
Foliar / Soil

FLOWKI BLUE

45-00-00+3%AA+TE

COMPOSITION	%w/v
Total Nitrogen (N)	45,00
Boron (B)	0,016
Iron (Fe) chelating agent EDTA	0,047
Copper (Cu) chelating agent EDTA	0,016
Manganese (Mn) chelating agent EDTA	0,016
Zinc (Zn) chelating agent EDTA	0,016
Molybdenum (Mo)	0,016
Free Aminoacids 3%	

NPK Gel Fertilizer with trace elements with Aminoacids

CHARACTERISTICS

FLOWKI BLUE is a formulated crop nutritional product and not just a simple mixture of raw materials, as are most of NPK fertilizers in powder form. It is an ideal supplement to a well-balanced crop nutrition program. **FLOWKI BLUE** has uniform and simultaneous solubility of all nutrients and does not result in sedimentation due to the presence high-quality dispersant and suspension agents. **FLOWKI BLUE** ensures very uniform dilution and dispersion of nutrients compared to powdered NPK formulations. **FLOWKI BLUE** maintains a very low conductivity and salinity index so that both plant and soil will not be stressed and burdened with underisable salt concentrations.

COMPATIBILITY

The product is generally compatible with other foliar fertilizer, insecticides, and fungicides. Do not mox with strong oxidant agents and agro-chemicals with high pH. If unsure about compatibility of the product with other agricultural chemicals, prepare a small separate mixture first and check compatibility. Text spray also on a few plants first.

WARRANTY

TANGEL AGRO S.L. warrants that this product is of high quality and conforms to the chemical description in this label.

STORAGE AND DISPOSAL

Store product in its original labeled container and store in a cool dry place. Keep away from any heat source and direct sunlight. Do not store in open or unlabeled containers. Avoid storing product in freezing temperature. Dispose empty containers in proper waste containers.

WARNING AND PRECAUTIONS

Not a hazardous substance but keep away from fire, explosive materials, and other chemicals. No adverse effect on human health but it is always recomended to practice good hygiene and safety in handing the product. It should not be taken internally.

CROP	TIME OF APPLICATION	INTERVAL	DOSAGE
Rice	Rooting to tillering stage. Spray 2-3 times per cropping.	10-14 days	50 - 75ml / 16L water
Corn	1 week after germination. Spray 3-4 times per cropping.	7 - 10 days	50 - 75ml / 16L water
Fruiting Vegetables (tomato, eggplants, hot and sweet pepper, okra)	7-10 days after transplanting to end of vegetative stage. Spray 3-4 times/cropping	7 - 14 days	50 - 75ml / 16L water
Brassicas (cabbage, cauliflower, broccoli, mustard, pechay, pakchoy)	3 to 4 true leaves stage to maturity. Spray 3-4 times per cropping.	10 - 14 days	50 - 75ml / 16L water
Leafy Vegetables (Lettuce, Celery, Spinach)	3 to 4 true leaves stage to maturity. Spray 3-4 times per cropping.	7 - 10 days	50 - 75ml / 16L water
Legumes /Cucurbits (Sitao, Beans, upo, ampalaya, patola, pipino, squash, watermelon, melon)	4 to 6 true leaves stage to end of vegetative stage. Spray 3-4 times pero cropping.	10-14 days	50 - 75ml / 16L water
Onions / Garlic	7 to 10 days after transplanting to bulb formation. Spray 3-4 times per cropping.	10-14 days	50 - 75ml / 16L water
Plantation Crops (Banana, Pineapple)	Vegetative stage to pre-pflowering stage.	21 - 28 days	50 - 75ml / 16L water
Root crops (potato, carrots, cassava, ube, kamote)	3-4 true leaves stage to tuber formation. Spray 4-5 times per cropping.	10-14 days	50 - 75ml / 16L water
Fruit Trees (mango, papaya, citrus, cacao, pomelo, durian, coffee)	Apply during growing stage and off-season period.	10-14 days	50 - 75ml / 16L water
Ornamentals / Cut - Flowers /Herbs	4-6 true leaves stage. Do regular maintenance feeding.	10-14 days	50 - 75ml / 16L water

"FLOWKI can be combined with almost all the fertilizers and pesticides. In case of doubt we recommend a trial or consult our technical department.

MACRONUTRIENTS

tangel AGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

tangelAGRO

Datasheet

NPK Gel Fertilizer
Foliar / Soil

FLOWKI GREEN

10 50 10 + Te

COMPOSITION	%w/v
Total Nitrogen (N)	10,00
Phosphorus (P_2O_5)	50,00
Potassium (K_2O)	10,00
Boron (B)	0,016
Iron (Fe)*	0,047
Copper (Cu)*	0,016
Manganese (Mn)*	0,016
Zinc (Zn)*	0,016

*Chelated with EDTA

- IMPROVES GROWTH, FLOWERING AND YIELD.
- HIGH CONCENTRATED PRODUCT.
- EFFICIENCY AND GUARANTEED RESULTS.
- SAFETY, COMFORT AND EASY HANDLING.
- STABILITY

Phosphorous NPK Gel Fertilizer with trace elements

CHARACTERISTICS

Flowki Green is a fertilizer NPK formulation with trace elements, and a high phosphorus content. It is specially formulated as a gel that presents an optimum balance to supplement the nutrition of crops during the flowering and friut set. Also contains the trace elements to the plant more needs in the form of chelates or mineral.

Nutrient content.
Based on statistics and various analyzes it is shown that fertilizers in GEL form have a correct and precise nutrient content. In some solid fertilizers most of their levels deviate from the actual nutrient content.

High uptake rate
The fertilizers in the form of gel can be applied to the leaf and be uptaked directly through stomata, which greatly increases the speed of uptake avoiding the problems of uptake in the soil due to, among others, acidity, soil temperature or excess salts, due to not knowing these variables.

ACTIONS

- *IMPROVES ROOT DEVELOPEMENT.*
- *IMPROVES GROWTH, FRUIT SETTING AND YIELD.*
- *INCREASES BUD AND TUBER NUMBERS.*
- *BOOST CELL DIVISION AND EXPANSION, RESULTING IN BIGGER FRUITS.*
- *SAFETY, COMFORT AND EASY HANDLING.*

APPLICATION

Crops	Dosages	Applications
Cereals	2.5 l/ha 250 ml/100l	Early in crop cyrcle. Follow by 2nd application 14 days later.
Paprika	2,0-3.0l/ha 200-300 ml/100l	1st application 3 weeks after transplanting, follow with a 2nd application 14 days later.
Roses & Ornamentals	2,0-3.0 l/ha 200-300 ml/100l	Monthly applications on perennials. 2 applications 14 days apart on annuals during initial growth stages.
Strawberries	3.0 l/ha 300 ml/100l	Single application 3 weeks after planting.
Tomatoes & Peppers	2.0-3.0 l/ha 200-300 ml/100l	1st application 3 weeks after transplanting, follow by a 2nd application 14 days later.
Vegetables	3.0 l/ha 200-300 ml/100l	1 to 2 applications early on in growth period of crop.
Other crops	2.0-2.5 l/ha 300 ml/100l	For crops with phosphate deficiences, repeat at 10-14 day intervals as required.

*FLOWKI can be combined with almost all the fertilizers and pesticides. In case of doubt we recommend a trial or consult our technical department.

MACRONUTRIENTS

tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

tangelAGRO

Datasheet

NPK Gel Fertilizer
Foliar / Soil

FLOWKI RED

12 05 42 + 3MgO + Te

COMPOSITION	%w/v
Total Nitrogen (N)	12,00
Phosphorus (P_2O_5)	05,00
Potassium (K_2O)	42,00
Magnessium (MgO)	03,00
Boron (B)	0,016
Iron (Fe)*	0,047
Copper (Cu)*	0,016
Manganese (Mn)*	0,016
Zinc (Zn)*	0,016

*Chelated with EDTA

- **HIGH CONCENTRATED PRODUCT.**
- **SAFETY, STABILITY, COMFORT AND EASY TO USE.**
- **HIGH UPTAKE**

Potassium NPK Gel Fertilizer with trace elements and Mg

CHARACTERISTICS

Flowki Red is a fertilizer NPK formulation with trace elements and Mg, and a high content of Potassium. It is specially formulated as a gel that presents an optimum balance to supplement the nutrition of crops during the last stages of vegetative growt h. Also contains the trace elements to the plant more needs in the form of chelates or mineral.

In general, **Flowki Red** can be used in all types of crops. It use is ideal for fruit expansion, as it is essential for the production of the carbohydrate necessary during fruit formation stage or maduration. Besides, Magnessium ensures an optimal photosynthesis during this critical stage.

Potassium is required in significant concentrations during the later stages of the crop development. Potassium regulates stomatal movements and maintains metabolic systems for the transport of sugars. During reproductive growth stages, **Flowki Red** supplies essential potassium whilst maintaining other elements at optimal concentration.

Flowki Red supplies magnesium which is often deficient in crops grown on light, sandy soil. Magnesium together with other micro nutrients are vital for chlorophyll and protein synthesis.

ACTIONS

- ***IMPROVES SUGAR CONTENT IN FRUITS.***
- ***PROMOTES FRUIT DEVELOPEMENT AND FRUIT SIZE.***
- ***IMPROVES GROWTH, QUALITY AND YIELD.***
- ***MINIMIZES PHYSIOLOGICAL DISORDERS.***

FOLIAR APPLICATION

Crops	Applications
Horticultural	200-250 cc/100L
Fruits, Citrus & Vine trees	200-300 cc/100L
Olive trees	250-400 cc/100L
Extensive	200-250 cc/100L

SOIL APPLICATION

Crops	Applications
Horticultural	5-10 L/100L
Fruits, Citrus & Vine trees	5-10 L/100L
Olive trees	5-10 L/100L
Extensive	5-10 L/100L

*FLOWKI can be combined with almost all the fertilizers and pesticides. In case of doubt we recommend a trial or consult our technical department.

MACRONUTRIENTS

tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

tangelAGRO

Datasheet

Nitrogen and Phosphorus fertilizer

Foliar / Soil

N-PHOSPHATE

Liquid Monoammonium Phosphate

COMPOSITION	%w/v
Nitrogen Total (N)	10
Ammoniacal nitrogen ($N\text{-}NH_4$)	10
Phosphorus Pentoxide (P_2O_5)	61
pH 1-2	
Density 1,4	

- **HIGH CONCENTRATION SOLUTION**
- **EASY TO HANDLE AND APPLY**
- **FREELY SOLUBLE AND QUICKLY DISSOLVING**
- **PRODUCT OF HIGH PURITY, NO RESIDUE OR CONTAMINANTS**

CHARACTERISTICS

N-PHOSPHATE, monoammonium phosphate is ideal for use in the initial growth phase of all crops, immediately before and after seeding and planting/transplanting.

N-PHOSPHATE is a stable solution compatible with all direct fertilizers based on Phosphates. It is especially suitable during the first half of the crop cycle.

N-PHOSPHATE is a liquid fertilizer free of chloride and sodium. It is the ideal fertilizer for increasing the availability of soil-phosphorus, especially in calcareous soils. **N-PHOSPHATE** consists in high purity of nutrients and no residue or contaminants.

ACTIONS

- ***IMPROVES THE GROWTH OF HIGH QUALITY ROOTS AND SHOOTS***
- ***POWER THE OVERALL PERFORMANCE OF THE PLANT***
- ***BETTER ENU (EFFICIENCY OF NUTRIENT USE) IN ALKALINE AND ACID SOILS***
- ***PROVIDES AN ACIDIFYING EFFECT ON THE SOIL SOLUTION FAVORING SOLUBILITY OF PHOSPHORUS AND MICRONUTRIENTS***

FOLIAR APPLICATION

HIGHLY EFFICIENT SOURCE OF PHOSPHORUS AS PHOSPHATE (H_2PO_4) WHICH PROMOTES RAPID UPTAKE BY THE PLANT

CROPS

Cereals	**Timing:** Spring **Rate:** 5-6 L/Ha **Comments:** Apply when deficiency is suspected, when soil/weather conditions prevent adequate phosphate uptake through the roots, or when SAP analysis shows low nutrient status. Repeat as necessary at 10-14 day intervals.
Maize	**Timing:** 4-8 leaves **Rate:** 5-6 L/Ha **Comments:** Apply when deficiency is suspected, when soil/weather conditions prevent adequate phosphate uptake through the roots, or when SAP analysis shows low nutrient status. Repeat as necessary at 10-14 day intervals.
Potatoes	**Timing:** 7-10 days after tuber iniciation **Rate:** 15 L/Ha **Comments:** At 7-10 days start of tuber iniciation. Crops are usually meeting along the rows at this stage.
Other crops	**Timing:** As requiered **Rate:** 5-6 L/Ha **Comments:** Apply when deficiency is suspected, repeat after 10-14 days if required.

Do not apply in tank mix pesticides when crops is showing deficiency symptoms, is under estress, or is adverse weather conditions.

MACRONUTRIENTS

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AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

NEW

tangelAGRO

Datasheet

RENK

Potassium fertilizer
Foliar / Soil

Yield & Quality

Potassium fertilizer
with Humic extracts

COMPOSITION	%w/v
Potassium (K_2O)	43,0
Total Humic extract	9,0
Humic Acids	7,0
Fulvic Acids	2,0
Density: 1,5 g/cc	
Free of chloride	

- **High concentration of K with amino acids.**
- **Systemic potassium transport in the plant.**
- **Faster uptake and translocation of potassium.**
- **Uses to prevent or correct potassium deficiencies in all crops.**

CHARACTERISTICS

In **RENK,** the low-molecular-weight organic acids are highly effective at penetrating cellular membranes. They carry positive ions, like potassium, into the cell, which results in a higher concentration of potassium within the cell.

RENK, is an optimal formulation of K to achieve an adequate supply of this important macronutrient. Renk maintains the optimum level of K at times of high demand by the plant.

Potassium complexed with humic acids in **RENK,** enhances potassium fertilization while augmenting the absorption of other essential nutrients.

ACTIONS

- ***ACCELERATES FRUCTIFICATION PROCESSES.***
- ***HOMOGENEOUS MATURATION.***
- ***INCREASES THE NUTRITIVE VALUE, SUGARS CONTENT AND FRUIT OILS.***
- ***ENHANCE YIELD AND QUALITY ON CROPS.***
- ***STIMULATES THE MATURATION, SIZING AND QUALITY OF THE FRUIT.***

FOLIAR APPLICATION

FERTIRRIGATION 15-40 l/ha
FOLIAR 300-600 cc/100l

Citrus	In the fruit set, fruit enlargement and before harvesting.
Cotton	2-4 applications along the crop cycle.
Fruit	In the fruit set, fruit enlargement and before harvesting.
Horticultural	2-6 applications along the crop cycle.
Olive	In the fruit set, fruit enlargement and before harvesting.
Ornamental	2-4 applications along the crop cycle.
Strawberry	1-3 applications on flowering and fruit formation of tubers.
Sugar beet	Starting 2 months before harvest.
Tropical fruits	2-4 applications during the crop cycle.
Vine	In times of fruit enlargement, ripening and coloring.

RENK, is compatible with the majority of fertilizers and phytosanitary products commonly used in agriculture. However, before mixing it is recommended to perform a prior test. To improve fruit quality (sugar, color, firmness, etc), apply from the beginning of fruit development, with an interval of 10-20 days.

Application is recommended during fruit fattening and ripening stages, as well as when intending to induce color change.

MACRONUTRIENTS

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AVAILABLE IN
1L - 5L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

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Datasheet

RENK SOLID

Potassium fertilizer
Foliar / Soil

Yield & Quality

Potassium fertilizer with Humic and Fulvic acids

COMPOSITION	%w/w
Potassium (K_2O)	30,0
Total Humic extract	30,0
Fulvic Acids	27,0
Humic Acids	3,0
Nitrogen (N)	2,0

- **HIGH POTASSIUM CONCENTRATION**
- **HIGH SOLUBILITY**
- **SYSTEMIC UPTAKE**
- **PREVENTS OR CORRECTS POTASSIUM DEFICIENCIES IN ALL CROPS**

CHARACTERISTICS

RENK SOLID is a highly concentrated fertilizer rich in fulvic acids and fast assimilable potassium.

Fulvic acids are potent organic stimulants, demonstrating higher reactivity compared to humic acids due to their smaller molecular size, thereby acting more quickly to enhance plant development.Furthermore, they enhance cellular membrane permeability, thereby improving nutrient absorption.

In the soil, they act as natural chelating agents. They form fulvates with bound cations, transforming them into easily assimilable molecules that quickly enter the plant, optimizing the supply of fertilizers applied through irrigation. They enhance soil structure by increasing aeration and clay flocculation, promoting root growth.

ACTIONS

- *HIGHER SIZE FRUIT - BEST CONSISTENCY.*
- *ADVANCEMENT OF RIPENING.*
- *MORE INTENSE COLOR.*
- *GREATER QUALITY - HIGHER YIELD.*
- *INCREASES THE CONTENT OF SUGARS AND OTHER RESERVE SUBSTANCES.*

APPLICATION

Crops	Foliar	Dosage
VINEYARD:	2-4 applications separated by 10-15 days starting from the nouasion stage and during ripening.	3-4 Kg/ha Optimal concentration. 300g/hl-400g/hl Maximum concentration. 1000g/hl On young and fragile foliage maximum 500g/hl.
FRUIT TREES Stone fruits Pip fruits	2-3 applications separated by 15 days starting at the beginning of fruits growth and up to 2 weeks before harvest.	**Fertirrigation**
FIELD CROPS Beets, potatoes, taproots	3-5 interventions on sufficiently developed foliage.	Use 7-15 kg/ha per application (to be diluted to 10% maximum in the mother solution).
VEGETABLES Tomatoes, pepper, melon...	3-5 interventions on sufficiently developed foliage.	

Apply **RENK SOLID** during the active periods of highest nutrient demand, particularly during vegetative growth, fruit set, and fruit development.

MACRONUTRIENTS

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AVAILABLE IN
1Kg - 5Kg - 20Kg Bag
500Kg Bigbag

FERTILIZER
CE
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Datasheet

X-PK

Fertilizer
Foliar/Soil

NEUTRAL pH · NEUTRAL pH

COMPOSITION	%w/v
Phosphorus (P_2O_5)	45,0
Potassium K_2O)	50,0

ACTIONS

- *FERTILIZER RICH IN PHOSPHORUS AND POTASSIUM*
- *HIGH SOLUBILITY OF MACRONUTRIENTS (P,K)*
- *MAXIMUM TECHNOLOGY WITH HIGHLY SELECTED RAW MATERIALS*
- *100% FREE OF IMPURITIES AND CHLORINE*
- *SAFETY, COMFORT AND EASY HANDLING*

Special for Extensive Crops.
Phosphorus and Potassium Fertilizer

CHARACTERISTICS

X-PK is a liquid fertilizer with a high concentration of phosphorus (P) and potassium (K) designed for the application of extensive crops.

X-PK has a particularly formulation suitable to be applied when required to provide an adequate supply of phosphorus and potassium in specific vegetative stages.

APPLICATION

Crops	Aim/Problem	Recommendations	Time
In all crops	To provide phosphorus and potassium.	3-5L/ha (in min. 200L water or 0.5-1%; for sensitive crops and under glass/film 0.25-0.5%).	When required
Cereals	Energy balance, yield, N efficiency, vitality.	2 times 4L/ha (particularly with cold and moisture).	In spring from the start of the vegetation.
Cereals	Energy balance, N efficiency, vitality, winter hardiness.	4L/ha (particularly with cold and moisture).	In autumn from the 3-leaf stage.
Legumes (Soy included)	Nodulation, quality, maturation.	2 times 4L/ha.	From 6-leaf stage.
Maize	Initial development, energy balance, N efficiency, vitality.	4L/ha (particularly with cold and moisture).	From 4-leaf stage.
Oilseed rape	Energy balance, N efficiency, vitality.	1-2 times 4L/ha (particularly with cold and moisture).	In spring from the start of the vegetation through to the beginning of flowering.
Sunflower	Initial development, energy balance, N efficiency, vitality.	4L/ha (particularly with cold and moisture).	From 4-leaf stage.
Sugar Beet	Leaf structure, juvenile development, N efficiency, root growth, sugar formation.	2 times 4L/ha.	From 6-leaf stage.
Potatoes	Yield, tuber and skin quality, tuber growth.	2 times 4L/ha.	From a tuber diameter of 10mm.
Strawberries	Initial development, vitality energy and water balance, N efficiency.	2 times 4-6L/ha.	Start of vegetation.
Strawberries	Fruit firmness, fruit size.	1-3 times 4-6L/ha.	Fruit set to harvesting
Pome fruit	Promotion of red top colour, fruit size, fruit firmness.	2-4 times 4-6L/ha.	Between June fruit drop and harvesting
Stone fruit	Promotion of fruit firmness, fruit size, sugar content.	2 times 4-6L/ha.	Fruit set to harvesting.
Soft fruit	Fruit firmness, fruit size.	1-3 times 4-6L/ha.	Fruit set to harvesting.
Soft fruit	Initial development, validity, energy and water balance, N efficiency.	2 times 4-6L/ha.	Start of vegetation.
Desert grapes	Initial development, validity, energy and water balance, N efficiency.	2 times 4-6L/ha.	5 leaf stage to beginning of flowering
Wine grapes	Initial development, validity, energy and water balance, N efficiency.	2 times 4-6L/ha.	5 leaf stage to beginning of flowering
General Vegetables	Initial development, validity, energy and water balance, N efficiency.	1-2 times 4-8L/ha (particularly with cold and moisture)	Once sufficient leaf mass has developed
Asparagus	Energy balance, yield, N efficiency, depositing of reserve substances, validity	1-3 times 4-6L/ha	From the middle of the vegetation period

MACRONUTRIENTS

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AVAILABLE IN
1L - 5L - 20L - 1000L
Plastic Bottle/IBC

FERTILIZER
CE
IMPORTED FROM EU

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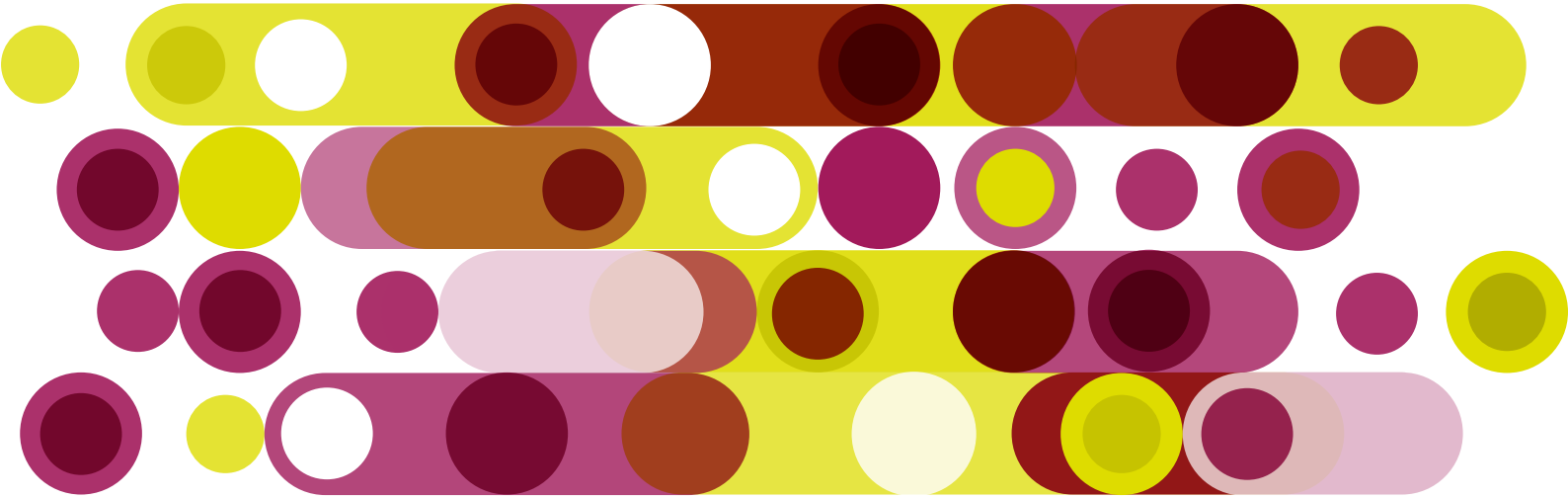
MICRONUTRIENTS



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Datasheet

Organic Boron Complexed corrector

BORON PLUS

COMPOSITION	%w/w
Boron (B)	11
OMA Technology	

- **BORON COMPLEXED WITH ORGANIC AGENTS**
- **BETTER ASSIMILATION OF BORON TAN IN STANDARD BORON FERTILIZERS**
- **HIGHER CROP YIELD AND BETTER QUALITY**

Boron corrector

CHARACTERISTICS

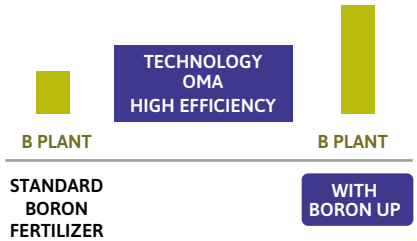
BORON PLUS is a liquid boron deficiency corrector for foliar or soil application. In sugar beet it prevents heart diseases or putrid of the root. In apple and pear, prevents bitter pits and cracks. In grape prevents the bunch, avoiding small, wrinkled fruits. In olive prevents the loss of production and the deformation of the olive.

In horticulture, **BORON PLUS** prevents heart rot in cellery, the coiled leaves in cauliflower and broccoli. In lettuce it prevents heart rotting and burning side; in stud it prevents the drying of the tip and stems; in potato it avoid the necrotic of tubers with deformities.

ACTIONS

- *ENHANCES CELL WALL STRUCTURE*
- *BETTER CELL DIVISION*
- *PROMOTES SUGAR TRANSPORT*
- *HIGHGER FLOWERING AND FRUITING*
- *ENHANCES PLANT HORMONE REGULATION*

Thanks to OMA technology we have increase the effectiveness of the fertilizer even under conditions of difficult weather.



APPLICATION

Crops	Objective	Details
All crops	Supply with boron.	1-4 l/ha as a foliar application in 200-400 l water or 5-8 l/ha as a soil application. During application with knapsack sprayer at 0,5%
Asparagus, root vegetables, tuberous plants	Quality (cracks; empty asparagus or tubers; inner scald), supply with boron.	1-2 x 3 l/ha as soon as enough leaves are developed
Cereals	Output, supply with boron.	0,5-1 l/ha until end of tillering, a deficiency proof by leaf analysis provided
Crucifers, leaf vegetables, bulbous vegetables	Inner quality, supply with boron.	1-2 x 2-3 l/ha as soon as enough leaves are developed
Fruit vegetables	Flowering, fruit setting, supply with boron.	1-2 x 2 l/ha before blossom when enough leaves are developed
Hop	Development of bud and sprout, quality.	3-5 x 0,1 % until flowering
Maize	Pollen quality, graining, grain yield, energy density, supply with boron.	3 l/ha from 4 leaf stage onwards
Oil seed rape	Resistance against cold, regular flower and maturation, yield. Regular blossom-time and maturity, output, supply with boron.	2-4 l/ha in autumn from 4 till 6 leaf-stage 2-4 l/ha in spring until beginning of blossom
Pit fruit	Pollen germination, flower quality, fruit setting, calcium transport, skin quality.	2-3 x 1 l/ha from red bud until petal fall
Pit fruit, Stone fruit, Strawberries, Berries, Table grapes	Storage of reserve substances, regeneration, resistance against cold, flower quality.	2 x 1 l/ha after harvest
Potatoes	Inner quality, against heart necrosis in cabbage, supply with boron.	1-2 x 1 l/ha at meeting across the rows
Stone fruit	Flower quality, fruit setting.	1 l/ha beginning of blossom time
Sugar beet	Against heart and dry rot, output, quality, supply with boron.	1-2 x 3 l/ha between 6-leaf-stage and meeting across the rows
Table grapes	Flower quality, fruit setting, regular maturity.	2 x 1 l/ha from increasing of flower cluster until beginning of blossom

MICRONUTRIENTS

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AVAILABLE IN
0,5 L - 1L - 5L - 20L -
1000L Plastic Bottle/IBC

FERTILIZER
CE
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Datasheet

Boron corrector
Foliar

BORON UP

COMPOSITION	%w/w
Boron (B)	20,50

Boron Corrector

- *FLOWERING AND FRUITING*
- *DEVELOPMENT OF VIABLE SEEDS*
- *SUGAR TRANSPORT*
- *IMPROVED YIELD QUALITY*
- *INCREASED YIELD*

CHARACTERISTICS

Boron is a micronutrient required for all plant nutrition.Soil application of BORON UP or foliar sprays or can be used to ensure an adequate B supply for optimum growth. BORON UP is a high-purity, single-nutrient fertilizer comprising 20.50% Boron (B). Through a rapid dissolution process, it can be applied via fertigation and hydroponics, and it is particularly recommended for foliar application. Applying BORON UP appropriately can mitigate boron deficiencies in crops, notably in cereals, rapeseed, sugar beets, potatoes, brassica vegetables, legumes, and pome/stone fruits. This treatment effectively prevents and rectifies severe physiological disorders that otherwise lead to substantial losses in both yield quantity and quality.

APPLICATION

	N° of Appl.	Crop phenological stage	Appl. rate (Kg/ha)	Spray solution appl. (L/ha)
		ARABLE CROPS		
Legumes	2	Pod end seed development	1	
	2	4-6 leaves 6-8 leaves	0,5 0,5-1	
Potatoes	3	Inter-rows closure Tuber formation Fruit development	1 1 1	200-300
Soybean	1	Development of side shoots and the main shoot	1	
Sugar beets	2	4-6 leaves Inter-rows closure	2 2	
Wheat s/w*	1	First node to flag leaf	1	
		ORCHARD CROPS		
Pome trees: apple/pear	4	Bud burst White bud Flowering After fruit harvest	1-2 1-2 1-2 1-2	500-800
		VEGETABLE CROPS		
Brassica plants: cabbage, cauliflower, broccoli	2-3	Leaf development Rosette growth Development of harvestable vegetative plant parts	0,5 1 0,5-1	
Bulb vegetables onion, leek	2-3	Leaf development Development of harvestable vegetative plant parts	1 0,5	
Cucurbits: pumpkin, zucchini, cucumber	3	Leaf development Formation of side shoots, inflorescence emergence Flowering. Fruit development	0,5 1 0,5	
Leaf vegetables	1	Development of harvestable vegetative plant parts	0,5	
Legumes	3	Leaf development Development of side shoots and the main shoot Inflorescence emergence and flowering	0,5-1 1 1	300-500
Root vegetables: carrot, celery, beet	2-5	Leaf development BBCH stage: 14-16 Leaf development BBCH stage: 17-19 Development of harvestable vegetative plant parts Development of harvestable vegetative plant parts Development of harvestable vegetative plant parts	0,5 0,5 1 0,5-1 0,5-1	
Solanaceous: tomato, pepper, early potato	2-5	Leaf development, formation and growth of side shoots, tuber formation Inflorescence emergence and flowering Fruit development Ripening of fruits and seeds	1 1 0,5-1 1	

MICRONUTRIENTS

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AVAILABLE IN
1Kg - 2Kg - 5Kg - 10Kg -
20Kg - 500Kg
Plastic bag/Big Bag

FERTILIZER
CE
IMPORTED FROM EU

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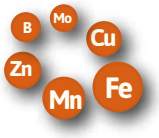
Datasheet

TANGEL MIX MICRO

Nutrient corrector
Soil / Foliar



Solid fertilizer corrector of multiple deficiencies

COMPOSITION %w/w

Iron (Fe)	7,50
Manganese (Mn)	3,50
Zinc (Zn)	0,70
Boron (B)	0,65
Molybdenum (Mo)	0,30
Copper (Cu)	0,28
Chelating agent EDTA	

- **TOTAL SOLUBILITY**
- **QUICK AND EFFECTIVE ASSIMILATION**
- **FOR ALL KIND OF CROPS**

CHARACTERISTICS

TANGEL MIX MICRO is a SOLID compound, highly-soluble in all types of water and whose Iron, Manganese, Copper, Zinc, Boron, Molybdenum and Magnesium micronutrients contribute simultaneously to the plant by providing the necessary dosage of nutrients that are indispensable for the perfect development of any crop.

Except for the Boron and Molybdenum, the nutrients in **TANGEL MIX MICRO** are included in a molecule (EDTA, ethylenediaminetetraacetic acid) that protects them in the soil and, when applied to the leaves, facilitates their uptake and transport to the plant.

ACTIONS

- ***CORRECTS SEVERES MICRONUTRIENTS DEFICIENCIES. YIELD AND QUALITY IN CROPS.***
- ***EDTA (CHELATING AGENT), FACILITATES THE UPTAKE AND TRANSPORT TO THE PLANT.***

APPLICATIONS

CROPS	Application
Cereals, Grain Legumes, Oilseed crops, Cotton, Maize, Summer crops	**RATE:** 1-1.5 kg/ha **APPLICATION:** Foliar **CRITICAL COMMENTS:** Apply early season, tillering and bolting.
Pastures, lucerne and forage crops.	**RATE:** 1-2 kg/ha **APPLICATION:** Foliar **CRITICAL COMMENTS:** Apply after each grazing or cutting.
Potatoes and other tuber crops.	**RATE:** 1 kg/ha **APPLICATION:** Foliar **CRITICAL COMMENTS:** Apply up to 4 applications from 10cm stage until post flowering, at 7-10 day intervals. Apply in a minimum of 500L/ha of water.
Vegetables	**CRITICAL COMMENTS:** Apply up to 3 applications at 10-15 day intervals when sufficient foliage is present. Apply in a minimum of 500L/ha of water. **RATE:** 5-10 kg/ha **APPLICATION:** Soil **CRITICAL COMMENTS:** Apply before sowing, transplanting or beginning of plant growth. **RATE:** 2-3 kg/ha **APPLICATION:** Fertigation **CRITICAL COMMENTS:** Apply every 7-10 days during the crop cycle. **RATE:** 2-3 kg/1000L **APPLICATION:** Hydroponics **CRITICAL COMMENTS:** Apply as required- 1L of prepared solution per 100 L irrigation water. Use the higher rate during crop development or periods of high temperature or duringshorter and cooler days.
Grapevines (wine and table).	**APPLICATION:** Foliar **CRITICAL COMMENTS:** Apply 2-3 times during the crop cycle. Apply by dilute application only. Do not exceed maximum per hectare rate. Minimum water rate of 500L per ha. **RATE:** 2-3 kg/ha **APPLICATION:** Fertigation **CRITICAL COMMENTS:** Apply every 7-10 days during the crop cycle.

CROPS	Application
Apples, Pears, Nut crops, Citrus, Mangoes, Stonefruit, Avocados, Pineapples.	**APPLICATION:** Foliar **CRITICAL COMMENTS:** Apply 2-3 times during the crop cycle. Apply by dilute application only. Do not exceed maximum per hectare rate. Minimum water rate of 500L per ha. **RATE:** 2-3 kg/ha **APPLICATION:** Fertigation **CRITICAL COMMENTS:** Apply every 7-10 days during the crop cycle.
Olives.	**RATE:** 0.5-1.5 kg/ha **APPLICATION:** Foliar **CRITICAL COMMENTS:** Apply when sufficient foliage is present. Apply in a minimum of 500L/ha of water. **RATE:** 5-10 kg/ha **APPLICATION:** Soil **CRITICAL COMMENTS:** Apply before sowing, transplanting or beginning of plant growth.
Strawberries.	**RATE:** 2-3 kg/ha **APPLICATION:** Fertigation **CRITICAL COMMENTS:** Apply every 7-10 days during the crop cycle.
Other berry crops	**RATE:** 2-3 kg/1000L **APPLICATION:** Hydroponics **CRITICAL COMMENTS:** Apply as required- 1L of prepared solution per 100 L irrigation water. Use the higher rate during crop development or periods of high temperature or during shorter and cooler days.

MICRONUTRIENTS

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AVAILABLE IN
1Kg - 5Kg - 20Kg - 500Kg
Bag/Bigbag

FERTILIZER
CE
IMPORTED FROM EU

tangelAGRO

Datasheet

TANGEL MIX MICRO L

Liquid fertilizer corrector of multiple deficiencies

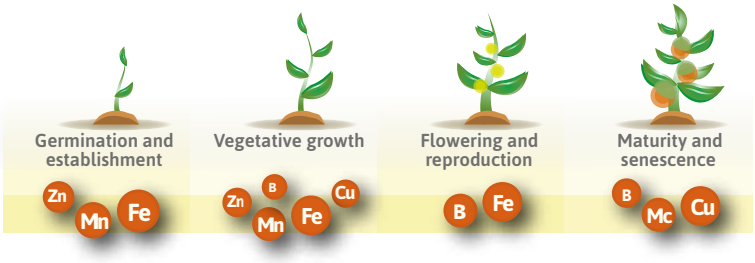
COMPOSITION	%w/v
Iron (Fe)	7,50
Manganese (Mn)	3,00
Copper (Cu)	0,40
Zinc (Zn)	5,00
Boron (B)	0,65
Molybdenum (Mo)	0,20
Chelating Agent EDTA	

- HIGH CONCENTRATION FOR A LIQUID CHELATE
- GOOD TANK MIX ABILITY
- VERY SAFE FORMULATION
- FOR ALL KIND OF CROPS
- QUICK AND EFFECTIVE ASSIMILATION

CHARACTERISTICS

TANGEL MIX MICRO L is a LIQUID chelated micronutrient fertilizer containing Boron, Copper, Iron, Manganese, Molybdenum and Zinc for foliar and soil application to prevent deficiencies and to treat Iron, Manganese, Copper, Zinc, Boron and Molybdenum deficiency in a wide range of crops.

A concentrated liquid alternative to EDTA powder. **TANGEL MIX MICRO L** avoids all the problems associated with storage, handling and mixing powdered chelate; no dust, no weighing, no mess and no problems with storing partly used containers.



MICRONUTRIENT ESSENTIAL TO SUPPORT GROWTH PROCESSES AND ITS GROWTH STAGES

ACTIONS

- *CORRECTS SEVERES MICRONUTRIENTS DEFICIENCIES.*
- *YIELD AND QUALITY IN CROPS.*
- *EDTA (CHELATING AGENT), FACILITATES THE UPTAKE AND TRANSPORT TO THE PLANT.*

APPLICATIONS

Foliar	Dosage and Treatment
General dose	**1–1,5L/Ha or 100–150 ml/100L** Applied when symptoms appear.
Horticultural	**3 x 75–100 ml/hl of water (3 x 0,5–1L/Ha)** At 10-15 days intervals, beginning when the foliage is enough.
Fruit trees, vines, citrus and olive trees	**100 ml/100L of water (1L/Ha)** First bloom. **100 ml/100L of water (1-1,5L/Ha)** After fruit set.
Cereal, Field crops, Industrial crops	**1L/Ha** During the crop cycle.
Potatoes and Vegetable Bulb	**4 x 1L/Ha** At 7/10 days intervals, starting at 10 cm of growth. Apply in a minimum of 500L/Ha water.
Ornamental plants	**75–150 ml/hl of water (0,5–1,5L/Ha)** 2-4 applications with intervals of 7-10 days at the beginning of the growing season.

MICRONUTRIENTS

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AVAILABLE IN
0,5 L - 1L - 5L - 20L -
1000L Plastic Bottle/IBC

FERTILIZER CE IMPORTED FROM EU

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Datasheet

TRIMAX

Nutrient corrector
Soil / Foliar

Yield & Quality

Manganese, Zinc, Boron and Copper

COMPOSITION	%w/w
Manganese (Mn)	15,0
Zinc (Zn)	15,0
Copper (Cu)	2,0
Boron (B)	2,0

- **BETTER YIELD**
- **IMPROVES QUALITY**
- **GREATER PROTEIN CONTENT**

CHARACTERISTICS

TRIMAX is a highly concentrated micronutrient powder, completely soluble, designed to enhance plant nutrition and vigor. It is a formulation of probiotic micronutrients and a stable source of copper, manganese, boron and zinc.

TRIMAX is a highly efficient and effective uptake of zinc, manganese, boron and copper to optimize micronutrients nutrition of the plant.

ACTIONS

- ***INCREASES THE LEVELS OF COPPER MANGANESE AND ZINC.***
- ***INCREASES THE VIGOR AND QUALITY ON CROPS - DECREASES DISEASE RISK.***
- ***SEED AND GRAIN FORMATION - PROMOTES MATURITY.***
- ***PROTEIN SYNTHESIS.***
- ***INCREASES SUGAR CONTENT - INTENSIFIES COLOUR.***
- ***IMPROVES FLAVOR IN FRUITS AND VEGETABLES.***

APPLICATIONS

CROPS		
Cereals	1-1,5 Kg/ha	**Problem/Target:** Shocking, yield, N-efficiency.
	1-1,5 Kg/ha	N-efficiency, photosynthesis performance, winter hardness.
	0,5-2 Kg/ha	Seed dressing with nutrients for improved youth development.
		Details: In the spring from the start of vegetation In the autumn from 3-leaf stage Seed treatment.
Potatoes	1-2 Kg/ha	**Problem/Target:** Shell quality, resistance. **Details:** 1-2 times from start of series
Soya	1-1,5 Kg/ha	**Problem/Target:** Photosynthetic performance, resistance, winter hardness. **Details:** 1-2 times from 6-leaf stage
Corn	2 Kg/ha	**Problem/Target:** Yield, photosynthetic performance, resistance. **Details:** From 4-leaf stage.

CROPS		
Rape	1 Kg/ha	**Problem/Target:** Yield, photosynthetic performance, resistance, winter hardness.
	1 Kg/ha	Yield, photosynthetic performance, resistance, winter hardness.
		Details: 1-2 times in spring from start of vegetation to early flowering In the autumn from 4-leaf stage.
Sunflower	1 Kg/ha	**Problem/Target:** Yield, photosynthetic resistance. **Details:** From 4-leaf stage.
Sugar beet	1 Kg/ha	**Problem/Target:** Yield, photosynthetic resistance. **Details:** 1-2 times from 6-leaf stage.

TRIMAX is miscible with the usual plant protection agents. However, a mixture test is advisable. For mixtures with leaf fertilizers or plant protection products, fill the syringe to 2/3 with water and add the products individually, add **TRIMAX** as the last component. Immediately apply with constant stirring.

TRIMAX is stable for at least 2 years since manufacturing date. Store in the closed original container in a cool and ventilated area. DO NOT store in direct sunlight. Keep away from food and animal feed. Keep out of the reach of children.

SHAKE WELL BEFORE USE!!

MICRONUTRIENTS

tangelAGRO www.tangelagro.com

AVAILABLE IN
0,5L - 1L - 5L - 10L - 20L -
1000L Plastic Bottle/IBC

FERTILIZER CE IMPORTED FROM EU

NEW

tangelAGRO

Datasheet

Organic corrector
Soil/Foliar

Organic Zn Complex corrector

ZINC FORTE

COMPOSITION	%w/w
Zinc (Zn) pH (1%) 6,5 ± 0,5	30,00

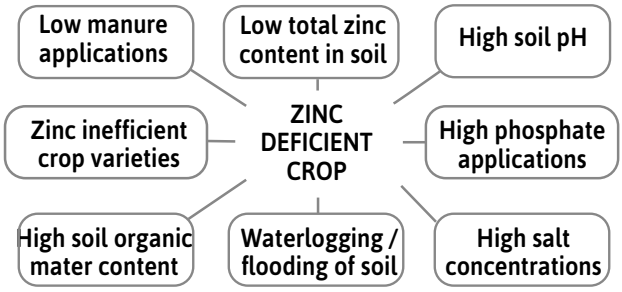
- BETTER ROOT DEVELOPMENT
- MORE VIGOROUS SHOOT GROWTH
- BETTER FLOWER FORMATION AND FRUIT SET
- MORE UNIFORM MATURITY
- MORE EFFICIENT UTILIZATION OF SOIL AND FERTILIZER NUTRIENTS

CHARACTERISTICS

ZINC FORTE is a zinc compound in the form of an organic complex. It is recommended for crops with high zinc requirements such as corn, potatoes, cereals, fruit trees, strawberries, onions, spinach, and soybeans. Kelom Zn Solid is recommended for soils with a high pH, high phosphorus content, and a lack of oxygen in the root zone. Zinc is an essential element in plant nutrition. It is needed in protein metabolism and forms a part of the enzyme system which regulates plant growth. Zinc is ranked high on the list of plant foods as one of the most limiting factors in crop production.

ACTIONS

CAUSES OF ZINC DEFICIENCY IN CROPS



APPLICATION

CROP	FERTIGATION	FOLIAR SPRAY
APPLE	400 – 800 gr / 1000L m2 per application	100 – 150 gr / 100L
CEREALS	200 – 300 gr / 1000 m2	80 – 120 gr / 100L
CITRUS	400 – 800 GR / 1000L m2 per application	100 – 150 gr / 100L
CORN	200 – 300 gr / 1000 m2	80 – 120 gr / 100L
CUCUMBER	300 – 1500 gr / 1000 m2 per application	100 – 120 gr / 100L
LETTUCE	300 – 1500 gr/ 1000 m2 per application	100 – 120 gr / 100L
MELON	300 – 1500 gr / 1000 m2 per application	100 – 120 gr / 100L

CROP	FERTIGATION	FOLIAR SPRAY
OLIVE TREE	300 – 400 gr / 1000 m2 per application	100 – 120 gr / 100L
PEAR	400 – 800 gr / 1000L m2 per application	100 – 150 gr / 100L
PEPPER	300 – 1500 gr / 1000 m2 per application	100 – 120 gr / 100L
POTATO	200 – 300 gr / 1000 m2	80 – 120 gr / 100L
TOMATO	300 – 1500 gr / 1000 m2 per application	100 – 120 gr / 100L
VINE	300 – 400 gr / 1000 m2 per application	100 – 120 gr / 100L

ALL TYPE OF CROPS:
2,0 – 2,5 Kg / ha

Keep the solution in the tank under agitation for 10 to 15 minutes. Preventive applications are recommended. If a deficiency becomes evident, apply Kelom Zn Solid as soon as possible, at any time.

SHAKE IT BEFORE USE

MICRONUTRIENTS

tangelAGRO www.tangelagro.com

AVAILABLE IN
0,5 L - 1L - 5L - 1000L
Plastic Bottle/IBC

FERTILIZER CE IMPORTED FROM EU

tangelAGRO

pH CORRECTORS

NEW
Imported from Spain

tangelAGRO

Datasheet

TANGEL pH

pH regulator
Foliar

COMPOSITION	%w/w
Total Nitrogen (N)	3,0
Ureic Nitrogen	3,0
Phosphorus Pentoxide (P_2O_5)	15,0

pH regulator, surfactant with coloring effect

CHARACTERISTICS

TANGEL pH is a triple action product that has the following characteristics:

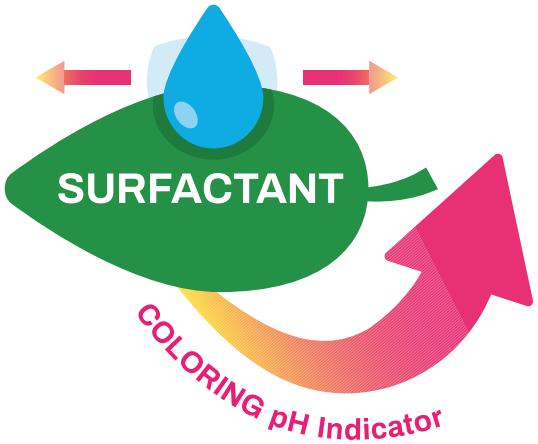
1. Its acidifying characteristics allows to REGULATE THE pH OF THE SOLUTION of the application between 4.5 to 6.5 (depending on the dosage used).

2. Increases the foliar dispersion. SURFACTANT EFFECT. It reduces surface tension of water by increasing wetting and spreading properties that improves pesticides and fertilizers performance and reduces losses and phytotoxic effects

3. THE SYSTEM CONTAINS A pH VALUE INDICATOR BY COLOR which helps an adequate preparation of the solution.

For these three reasons, **TANGEL pH** improves the effectiveness of phytosanitary treatments to prevent degradation and facilitate not only a more uniform distribution, but also an enhanced uptake.

ACTION



DOSAGE AND APPLICATION

Dosages necessary to carry 1.000 L of solution at pH 6:

- If the pH of the solution is 7.0 a 8.0: 400 - 600 c.c.
- If the pH of the solution is 8.0 a 9.0: 500 - 600 c.c.
- If the pH of the solution is 9.0 a 10.0: 600 - 1000 c.c.

Fill the tank with a volume of water higher than the products to add:
Add **TANGEL pH** shaking the solution, put the products of treatment and complete the deposit, then apply.

In case of hard water, increase the doses by 20%.

COLORIMETRIC pH INDICATOR TABLE

COLOR	RED	PINK
pH SOLUTION	<5	5-5,5

ORANGE	YELLOW	LIGHT YELLOW
5,6-5,9	6-6,5	>7

pH CORRECTORS

tangelAGRO www.tangelagro.com

AVAILABLE IN
0,5L - 1L - 5L - 10L - 20L
Plastic Bottle

tangelAGRO

PHOSPHITE SELF DEFENSE

tangelAGRO

Datasheet

PHIT-MZ

Phosphite self defense
Soil/Foliar

Systemic

Fungicide action
Zn and Mn fertilizer

COMPOSITION	%w/w
Phosphorus (P_2O_5)	14,5
Zinc (Zn)	5,0
Manganese (Mn)	3,0
Density at 20°C	1,3 g/cc

CHARACTERISTICS

PHIT MZ is a soluble liquid that has in its formulation phosphites of manganese (Mn) and zinc (Zn) used as contribution of these elements and in the correction of shortcomings due to deficiencies or imbalances in the assimilation of them by the plants in all vegetable crops.

PHIT MZ is manufactured under strict quality standards by TANGEL-INV, ensuring his composition as well as its effect on all crops.

ACTIONS

The perfect balance that **PHIT MZ** smakes is that it stimulates self-defense mechanisms (phytoalexins), giving the plants a strengthening in trunk, neck and root on any type of horticultural, fruit cultivation, citrus or floriculture.

It has an excellent solubility which allows an immediate incorporation to the sap flow of the plant through the roots, stems, leaves, etc. Foliar and root applications are recommended and fertigation, while the addition of adjuvants is not necessary.

Performs the following functions:

-Controls and corrects the deficiencies of Mn and Zn due to deficiencies or imbalances of these elements which are very necessary for a proper development in different cultures.

-Due to the character, which is attributed, as inhibitor of the reproductive cycle of fungi, **it prevents fungal attacks such as watering and rot (Phytophthora, downy mildew, etc).**

-Balanced phosphorus contribution, macro element indicated and recommended for a proper nutrition from the plant in all of their vegetative periods.

APPLICATIONS

Crop	Dose	Application time
Citrus, fruit	3-4 cc/l. in foliar application 4-9 l/ha soil application at the end of the irrigation	Period of maximum vegetative development. Make 2 treatments every 7-9 days.
Vegetables, strawberries, ornamental	3-4 cc/l. in foliar application 4-9 l/ha down at the end of irrigation	Period of higher vegetative development. Make 2-5 applications every 7-10 days.
Climbing vine, vine	1.5-3 cc/l. in foliar application	Period of higher vegetative development.
Saplings	1.5 cc/l. immersion	All crops: fruit trees, citrus, strawberries, vegetable transplant plants, ornamental
Painting	500 cc/l.	Painting and impregnated the trunk and the branches on the affected parties

Do not mix with oils, copper compounds or alkaline reaction products. If you want to mixtures with fungicides, insecticides, organic products etc, are recommended first to test compatibility.

Precautions:
-In case of accidental ingestion go to a medical center.
-It is recommended to take normal precautions in application of the product, use gloves and protect your eyes
-If there is direct contact with eyes or prolonged contact with skin, wash the affected area with plenty of water

AVAILABLE IN
1Kg - 2Kg - 5Kg - 20Kg
Bag

IMPORTED FROM EU

tangelAGRO

Datasheet

PHIT-PK

Phosphite self defense
Soil/Foliar

Systemic

COMPOSITION	%w/w
Potassium Phosphonate	95,0
Phosphorus (P_2O_5)	57,0
Potassium (K_2O)	38,0

- P AND K NUTRITION ACTION
- DISEASES CONTROL
- YIELD AND QUALITY

P and K fertilizer.
Fungicide action

SYSTEMIC ACTIVITY FOR EFFECTIVE DISEASE CONTROL

INDUCTOR OF THE NATURAL PLANT DEFENSE. CRYSTALLINE POTASSIUM PHOSPHONATE

CHARACTERISTICS

PHIT-PK is a water-soluble and stabilized product for: foliar, soil drenching, drip irrigation, trunk painting and hydroponic applications. Stimulates production of Phytoalexins, which enhance host natural defences against Oomycets fungi. Soluble and stabilised powder. It solves quickly and homogeneously in water. **PHIT-PK** is easily uptaked by leaves, roots ans also through bark of trees. Dues its up and down systemic action, acts readily over sensible tissues increasing the host resistance against fungi atacks.

ACTIONS

- ***ENHANCED PHYTOALEXIN AND CHITINASE CONTENT***
- ***IMPROVED CELL WALL STRENGTHENING AND ACTIVATION OF NATURAL DEFENSE RESPONSE***
- ***ENHANCED P-CONTENT, BIOMASS AND FOLIAR AREA***
- ***INCREASED SOLUBLE SUGAR CONTENT AND FRUIT FIRMNESS***
- ***INCREASED FRUIT SIZE AND YIELD***

APPLICATION

Application/doses	Spray Volume	Remarks
CITRUS AVOCADO TOP FRUITS		
Foliar spray (H.V.) 250 g/hl	1.000-3.000 l/ha	Three (3) preventive treatments per season are recommended: in the beginning of Spring, Summer and beginning of Autumn. In top fruits, treat once or twice in pre-blossom or/and petal fall, to prevent Fire blight.
Foliar spray (mistblower) 600 g/hl	300 - 1.200 l/ha	
Trunk painting 300 g/l	—	Scratch the infected part of the stem and paint the affected area. Severe cases: make three (3) treatments per season.
Soil (through drip irrigation) 5 - 7 kg/ha	—	Make 2 preventive treatments: 1st in spring: 2nd in autumn.
STRAWBERRIES		
Soil (through drip irrigation) 2,5 -5 kg/ha	—	Make 2 - 3 treatments from rooting to flowering to prevent attacks of Phytophthora cactorum.
Foliar spray 250 g/hl	800 - 1.000 l/ha	From the start of flowering to end of harvesting, make 3 - 4 treatments.
VINEYARD AND TABLE GRAPES		
Viney. Foliar spray (mistblower) 500 g/hl	300 - 500 l/ha	Treat every 15 days from flowering to ripening. A tank mix with preventive fungicides as Folpet or Mancozed are recommended.
Tab. Grapes Foliar spray 250 g/hl	600 - 1.000 l/ha	

Application/doses	Spray Volume	Remarks
LETTUCE AND LEAF CROPS		
Foliar spray 2,5 Kg/ha	600 - 1.000 l/ha	Two (2) treatments are recommended: 1st: 7-10 days after transplanting/ 2nd: 15 days later.
ONIONS		
Foliar spray 1,5 - 2,5 Kg/ha	300 - 500 l/ha —	Three (3): preventive treatments per season: 1st: three (3) true leaves stage/2nd: 15 days later/3rd: 15-21 days later.
FENCES OF CONIFERS		
Foliar spray 250 g/hl	600 - 1.000 l/ha	Make 4 treatments every month from Spring to mid Summer. Use up to 20-30 g in case of isolated big trees (soil drenching).
Soil (drip irrigation or drenching) 10 g/m of fence	—	
TOMATOES/CUCURBITS		
Foliar spray 150-250 g/hl	800 - 1.000 l/ha	Fortnightly (15 days) from flowering until mid-end harvesting.
PEPPERS		
Soil (drip irrigation or dren.) 2.5 Kg/ha	—	Every 15-21 days from one week after transplanting to harvesting.
TURF AND GOLF COURSES		
Foliar or sprinkler irrigation 0,75 -1 Kg/1000m^2	—	Monthly treatments from beginning of Spring to mid Autumn.

PHOSPHITE SELF DEFENSE

tangelAGRO www.tangelagro.com

AVAILABLE IN
1Kg - 2Kg - 5Kg - 20Kg
Bag

IMPORTED FROM EU

tangel AGRO

PHYTOREGULATORS

NEW

tangelAGRO

Datasheet

Plant Growth Regulator
Soil / Foliar

CROP, YIELD & QUALITY

GIBBERELLIC POWER

GIB PLUS

COMPOSITION	%w/w
Gibberellins	3,00
Total Nitrogen (N)	23,00
Potassium (K_2O) water soluble	12,00
Zinc (Zn)	10,00
Fulvic Acids	1,50

Plant growth regulator

CHARACTERISTICS

GIB PLUS is a hormonal product designed to stimulate the development of plants, formulated with a high content of gibberellic acid and enriched with elements that act in synergy with this hormone: Nitrogen, Potassium and Zinc. The appropriate formulation rapidly activates the growth of axillary buds, in addition to helping to overcome periods of environmental stress in the early stages of development.

The composition of its three surfactant ingredients favors the dispersion of water molecules considerably and improving its mobility in the soil and the infiltration speed.

The fulvic acids it contains **GIB PLUS**, promote the formation of soil aggregates, thus favoring the porous spaces between the particles consequently improving the mobility of the water and its availability, as well as that of the nutrients present in the soil.

ACTIONS

- ***INCREASES THE NUMBER OF FRUITS, COLOR AND SIZE.***
- ***ACCELERATES THE SPROUTING OF VEGETATIVE BUDS.***
- ***STIMULATES FLOWERING.***
- ***IT FAVOURS THE GROWTH OF INTERNODES.***
- ***HIGH CONTENT OF GIBBERELLINS***
- ***HIGH EFFICIENCY***
- ***SYNERGISTIC ACTION OF FULVIC ACIDS AND ZN***

APPLICATION

Crops	Dosis (L/Ha)	Application stages
Alfalfa	500g to 1Kg/Ha	Apply after each cut when regrowth appears.
Bean, Chickpea, Soy	500g to 1Kg/Ha	Apply in full bloom and beginning of pod growth.
Celery	500g to 1Kg/Ha	To increase the length of the petioles, apply four weeks before harvest.
Citrus	3 to 4Kg/Ha for every 1000L water	Apply at the beginning of flowering and repeat 2 to 3 times with an interval of 3 weeks between each application.
Cotton	500g to 1Kg/Ha	Apply during the bloom stage.
Cucurbits (Watermelon, melon, cucumber and pumpkin)	500g to 1Kg/Ha	Apply at the beginning of fruiting and repeat every 8 days
Maize and Sorghum	500g to 1Kg/Ha	Apply at the stage of 4 to 6 developed leaves.
Potatoes	1 to 2Kg/Ha for every 1000l water 200g/100L water (4 ppm gibberellins)	Apply at the time of sowing, sprinkle the tuber. Apply in the immersion treatment.

Crops	Dosis (L/Ha)	Application stages
Strawberries	1 to 2Kg/Ha	Apply at the beginning of flowering and repeat at intervals of 21 days between each application.
Sugar cane	1Kg/Ha	Apply at the time of stem elongation.
Tomatoes	500g to 1Kg/Ha	Apply in the third and fourth week after transplanting and repeat at the beginning of fruit development.
Tomatoes	500g to 1Kg/Ha	Apply in the third and fourth week after transplanting and repeat at the beginning of fruit development.
Vid (Seedless variety "Thompson Seedless Perlette")	250 to 500g/100L water 1Kg/100L water 500g to 2Kg/100L water	Apply in the thinning stage of the flowers. Apply for bunch elongation.
Walnut tree	200g/100L water 500g/100L water 300g/100L water 400g/100L water	Apply to green tips. Apply 8 days later. Apply 15 days later. Apply 21 days later.
	For trees in production, apply the 4th applications. For developing trees, apply the first 3 applications.	

PHYTOREGULATORS

tangelAGRO www.tangelagro.com

AVAILABLE IN
500gr - 1Kg - 5Kg

Imported from EU

tangelAGRO

Datasheet

Plant Growth Regulator
Foliar

ECOLOGICAL AGRICULTURE

MAGNUS

COMPOSITION %w/w

Gibberellines	500 ppm	Calcium (Ca)	0,8
Auxines	500 ppm	Zinc (Zn)	2,0
Cytokinins	200 ppm	Fulvic Acids	25,0
Cisteine	500 ppm	Nitrogen (N)	9,0
Tiamine	1110 ppm		
Inositol	200 ppm		

Plant growth regulator

- **APPLICATION TO ALL CROPS**
- **OPTIMAL HORMONAL BALANCE**
- **HIGH ASSIMILATION IN THE AERIAL PART OF THE PLANT**
- **QUALITY AND YIELD IN CROPS**

CHARACTERISTICS

MAGNUS is a high-tech product with a balanced composition in growth regulators (Gibberellins, Auxins, Citokinins), vitamins (Inositol, Thiamine, ...), amino acids, fulvic acids and nutrients.
All this makes it a product that improves the metabolic efficiency of the plant.
Thus, **MAGNUS** achieves a vigorous foliage, excellent flowering, mooring and fruit setting in crops among other effects.

ACTIONS

- ***IMPROVES THE STRUCTURAL DEVELOPMENT OF THE PLANT.***
- ***BETTER UPTAKE AND USE OF NUTRIENTS IN CROPS.***
- ***EXCELLENT FLOWERING, FRUIT SET AND ROOTING.***
- ***GREATER RESISTANCE TO STRESS WHEN RECOVERING THE HORMONAL BALANCE.***
- ***INCREASE IN YIELD AND QUALITY IN CROPS.***

APPLICATIONS

Crops	Application
Chard, spinach and open leaf lettuce	Apply 0,75 to 1 L/Ha of 3 to 4 weeks after emergence.
Cotton	Apply 0,75 to 1 L/Ha at the time of first or second squares. Apply mainly in medium and low size varieties or to exit from a stage of stress.
Garlic and onions	Apply 0,75 to 1 L/Ha in the moments before the bulb differentiation (10-12 weeks after planting).
Alfalfa	Apply 0,75 to 1 L/Ha after each cut when regrowth appears.
Celery	Apply 0,75 to 1 L/Ha of 4 to 6 weeks before cutting.
Broccoli, Cauliflower, Cabbage and Lettuce	Apply 0,75 to 1 L/Ha at the beginning of the formation of the head (inflorescence).
Scallion and leek	Apply 0,75 to 1 L/Ha at 30 days after transplantation for leek and 45 days after planting for onions, repeated 30 days later.
Cucurbits (cucumber, melon and watermelon)	Apply 0,75 to 1 L/Ha when the plants are 3-5 true leaves. Repeat at the beginning of the formation of elvers, continue every 15 days until the last cut.
Cereals (wheat, barley,oats,triticale)	Apply 0,75 to 1 L/Ha when full tillering, beginning of stalk formation and boot stage.
Melon	In plantations with 1 or 2 years, apply 0,75 to 1 L/Ha during the cycle. In cultured 3 more years to 2 applications with 30-day interval between each. The first when the plant is 30cm height and the second 50cm height.

Crops	Application
Flowers	Apply 0,75 to 1 L/Ha at the time of the appearance of the flower stems.
Beans, Green Beans, Soybeans	Apply 0,75 to 1 L/Ha at the time of the appearance of flower buds and repeat 1-3 times every 15 days.
Maize and sorghum	Apply 0,75 to 1 L/Ha between 6 and 8 fully developed leaves, and if possible repeat in full bloom.
Potato	Apply 0,75 to 1 L/Ha at the time of tuber initiation and repeat 15-30 days later.
Tomato, pepper and aubergine	Apply 0.75 to 1 L/Ha to the appearance of the flowers, repeat every 2 or 3 weeks until the last commercial flowering.
Tobacco	Apply 0,75 to 1 L/Ha at 30 days after transplanting and repeat 30 days later.
Citrus, avocado, mango, papaya and guava	Apply 150 to 200ml per 100L of water to the appearance of repeating blooms 30 days.
Apple and peach	Apply 150 to 200ml per 100L silver tips water (apple) and green tips (peach) and repeat when the fruit has 1 to 2 cm diameter.
Strawberry	Apply 0,75 to 1 L/Ha once a month, starting at the time of appearance of the first flower cluster.

PHYTOREGULATORS

tangelAGRO www.tangelagro.com

AVAILABLE IN
0,5L - 1L - 5L - 10L - 20L
Plastic Bottle

Imported from EU

tangelAGRO

Datasheet

MAXIMUM

Plant Growth Regulator
Foliar

CROP, YIELD & QUALITY

Plant growth regulator

COMPOSITION	%w/w
Cytokinins	3000 ppm
Total Nitrogen (N)	6,00
Calcium (CaO)	9,00
Fulvic Acids	5,50
Chelating agents	3,60
Density	1,35

CHARACTERISTICS

MAXIMUM is a hormonal product designed for an optimal supply of Cytokinins, Nitrogen and Calcium. Its use is highly recommended during the vegetative growth period until the beginning of flowering.

ACTIONS

Increases the formation and differentiation of new tissues and lateral budding.

Exerts a regulatory function that **delays the aging of the plant organs,** and lengthens the life of leaves and bulbs.

Favors the formation of flower buds and the growth of the fruit

Delays the senescence of the plants.

APPLICATIONS

Crops	Dosis (L/Ha)	Application
Alfalfa	1-2 L/Ha	At the beginning of the growth of each cut.
Beans, Soybeans Cheackpeas	1-2 L/Ha	At the flower bud stage and at the beginning of pod growth.
Banana and Pineapple	1L per 1000L of water	At the beginning of the intensive growth of the plant and at the setting of the fruit.
Cereals (wheat, barley, oats, triticale)	1L/Ha	At the first shoot in winter crops and in spring crops when the plant has 2 to 5 leaves.
Citric	1-2 L/Ha	At the beginning of flowering and repeat 15 to 20 days later.
Corn and Sorghum	1 L/Ha	In the 6 to 8 leaf stage.
Cotton	1 L/Ha	At the beginning of the cultivation and repeat four times with intervals of 8 days.
Cucumbers, Eggplant, Zucchini, Tomatoes	1 L/Ha	At the beginning of flowering and make 2-3 applications with intervals of 10 to 15 days.
Garlic and Onion	1-2 L/Ha	In the 6 to 8 leaf stage and repeat every 15 days.
Potatoes	1-2 L/Ha	At 20 days after emergence and repeat at 20 and 40 days later.

Crops	Dosis (L/Ha)	Application
Peanuts	1,5-2L/Ha	At 80 days after sowing.
Rice	1L/Ha	When the plant has 2 to 3 leaves and at the beginning of the panicle.
Sugar Cane	1-2 L/Ha	45 to 60 days after sowing and a second time 45 days after the first application.
Sun Flower	1L/Ha	To the formation of the sunflower star state.
Vegetables (of leaf and flower stem)	1,5-2L/Ha	In the 6 to 8 leaf stage and repeat 15 to 21 days later.
Vegetables (of root)	1,5-2L/Ha	In the 4 to 6 leaves stage and repeat 3 times with an interval of 15 days.
Vid	1L/Ha	At the time of flowering and repeat at the beginning of fruit growth.
Walnuts	2L per 1000L of water	Before flowering, repeat 15 days later and if necessary, 20 days after the second application.

PHYTOREGULATORS

tangelAGRO www.tangelagro.com

AVAILABLE IN
5Occ - 100cc - 200cc - 500cc - 1L - 5L
Plastic Bottle

Imported from EU

tangelAGRO

QUALITY AND COLOR

tangelAGRO

Datasheet

Color
Maduration
Soil/Foliar

QUALITY

CANDY

COMPOSITION %w/w

Total Nitrogen (N)	3,0
Potassium (K_2O)	5,0
Calcium (CaO)	5,0
Magnesium(MgO)	2,0
Polysaccharides	25,0
Uronic acid	2,0
Boron (B)	0,1
Zinc (Zn)	0,1

Color natural promoter and fruit ripening

- **ORGANIC AND NATURAL PRODUCT**
- **BALANCED MACRO AND MICRONUTRIENTS COMBINATION WITH ORGANIC MATRIX**
- **OPTIMIZED BALANCED**

CHARACTERISTICS

CANDY is a product specially designed to improve the uniformity, coloration, consistency and maturation of the fruit. **CANDY** is a product that includes a special form in the quality and production of the fruit, as a consequence of its active biological components

CANDY incorporates an organic molecular polymer of high weight, which confers more elasticity, hydration and firmness to the skin of the fruits. The contribution of calcium (Ca) and magnesium (Mg), give **CANDY** the ability to reduce the permeability of cell membranes and the absorption of water, helping to increase the firmness of the fruit and, therefore, extend its useful life.

The **CANDY** balanced formulation, designed with an organic matrix rich in polysaccharides, macro and microelements, key elements in the process of fruit setting and ripening, has been achieved because of a careful selection of various components, prepared in an optimal balance. The result is a product with the highest quality and efficiency.

ACTIONS

- ***IMPROVES NATURALLY FRUIT COLOR.***
- ***INCREASES FRUIT CONTENT OF SUGAR.***
- ***IMPROVES FRUITING AND PROLONG SELF LIFE.***
- ***IMPROVES THE CALIBRE AND FIRMNESS OF THE FRUIT.***
- ***ADVANCES THE FRUIT RIPENING.***

FOLIAR APPLICATION

Crops	Doses
Fruit crops (table grapes, wine, apple, pear, peach, nectarine, apricot, cherry, kiwi, etc.)	**ml 400-450/hl** make 2-3 close treatments (7 days) beginning from veraison
Citrus fruits, oil and table Olive	**ml 400-450/hl** make 2-3 close treatments (7 days) beginning from veraison
Vegetable and industrial crops in full field (industrial and table tomatoes, pepper, eggplant, strawberry, watermelon, melon, Borlotti beans, sugar been, etc.)	**ml 400-450/hl** make 2-3 close treatments (7 days) beginning from veraison
Greenhouse vegetable crops	**ml 300-400/hl** make two treatments on each fruiting stage from mid enlarged fruits
Flowering plants, ornamentals and cut flowers	**ml 200-300/hl**

SOIL APPLICATION

Crops	Doses
All crops	It **0,8-1,0/1000m2** by half enlarged fruit. we recommend the mixure with chelapotash **4kg/1000m2**

QUALITY AND COLOR

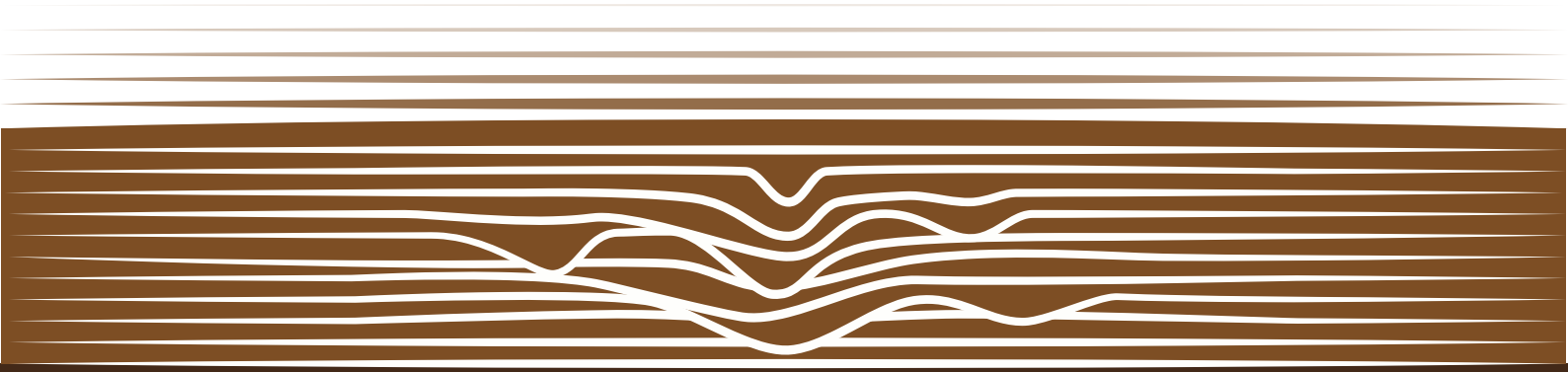
tangelAGRO www.tangelagro.com

AVAILABLE IN
0,5 L - 1L - 5L - 20L - 1000L
Plastic Bottle/IBC

Imported from EU

tangelAGRO

ROOTING



NEW

tangelAGRO

Datasheet

Rooting
Foliar / Soil

+ROOT

Root development

COMPOSITION	%w/v
Potassium (K_2O)	11,25
Phosphorus (P_2O_5)	7,50
Total Nitrogen (N)	2,50
Organic Nitrogen (N)	2,00
Manganese (Mn) chelating agent EDTA	0,50
Zinc (Zn) chelating agent EDTA	0,50
Iron (Fe) chelating agent EDTA	0,40
Free Aminoacids	0,50
Seaweed Extract (Ascophyllum nodosum)	7,00
Mannitol	0,25
Density: 1,25 g/cc	

- **BALANCED PROPORTION OF ORGANIC MATTER AND NUTRIENTS**
- **CONTAINS NATURAL PHYTOHORMONES SPECIFIC TO ROOTING**

CHARACTERISTICS

+ ROOT is a product for application in the early stages of plant development in order to improve rooting.

The synergy between all the components present in **+ ROOT**, allows to enhance the capacity of assimilation and mobility inside the plant of the Macronutrients and Micronutrients, accelerating the development of the root system and an optimal start of the crops.

The Organic Matter of **+ ROOT** will carry a source of energy in the biological processes and a stimulation of the microbial life of the soil (rhizosphere).

The product has a biostimulant effect in plants, activating the production of auxins which enhances cell division and induce the formulation of lateral roots and adventitions.

Its composition helps plants to achieve its maximun genetic potential and stablish a strongroot system which will increase both nutrients and water absorption.

ACTIONS

- ***HIGHER DENSITY OF ROOTS.***
- ***INCREASE IN THE UPTAKE OF WATER AND NUTRIENTS. GREATER RESISTANCE TO STRESS FACTORS.***
- ***RECOVERY OF ROOTS DAMAGED BY NEMATODES AND FUNGI ACTIVITY.***
- ***INCREASE IN THE SYNTHESIS OF ENDOGENOUS CYTOKININS IN ROOTS.***

SOIL APPLICATION

Crops	Doses	Applications/Treatments
Seedbeds	5-15 ml/L	**1 - 3 /** Form out to cotyledons
Horticultural outdoor (Transplantion)	10-20 L/Ha	**1 - 2 /** In the first watering plant and 8-15 days
Horticultural greenhouse trees	2-3 L/Ha	**1 - 2 /** In the first watering planing and 8-15 days
Beding plants Young trees Adult trees	10 ml/base 20-50 ml/base 40-60 ml/base	**1 - 2 /** At the beginning of activator when necessari to recover the radicular mass

To perform a foliar application in these crops: general doses 300-500 cc/hl

FOLIAR APPLICATION

Extensive Crops	Applications/Treatments
Maize	**1 /** after the beginning of vegetation - development of leaves (BBCH 10-14)
Oilseed rape	**1 /** after the beginning of vegetation - development of leaves (BBCH 10-14) **2 /** the root system regeneration after the beginning of spring vegetation (BBCH 19/20)
Potato	**1 /** development of leaves (BBCH 10-14)
Sugar beet	**1 /** after the beginning of vegetation - development of leaves - youth stage (BBCH 10-16) **2 /** development of leaves - rosette growth - crop cover (BBCH 18-33)
Wheat	**1 /** after the beginning of vegetation - development of leaves - 3 leaves unfolded (BBCH 10-13) **2 /** the root system regeneration after the beginning of spring vegetation (BBCH 21/22)

Doses for these extensive crops: 1-1,5 l/ha

ENHANCES THE FORMATION OF THE ROOT SYSTEM

SEAWEED EXTRACT
Ascophyllum Nodosum

AMINOACIDS

ROOTING BIO INDUCTORS:
Alginic acid
Mannitol

MICRONUTRIENTS

ROOTING

tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L- 20L - 1000L
Plastic Bottle/IBC

Imported from EU

NEW

tangel AGRO

Datasheet

+ROOT SOLID

Rooting
Foliar / Soil

WITH NATURAL PHYTOHORMONES

Root development

COMPOSITION	%w/w
Nitrogen (N) Total	7,00
Phosphorus (P_2O_5)	35,0
Free amino acids	20,0
Indolbultyric acid (IBA)	1500 ppm
Naphthyacetic acid (ANA)	500 ppm

CHARACTERISTICS

+ROOT SOLID has a high concentration of Phosphorus (fast assimilation) and specific organic extracts rooting inducing for any stage of crop development.

+ROOT SOLID is a plant biostimulant that promotes development and root growth, in foliar and soil applications directly in the root areas, its effect contributes to increase the flow of nutrients from the soil solution to the plant, granting plants with greater resistance to adverse environmental effects.

+ROOT SOLID provides the conditions and elements necessary for the development of the root, increasing its growth and obtaining and increase in the vigor and resistance of the crop.

Each molecule of **+ROOT SOLID** has a specific function in the stimulation of root system development. In addition, the composition of Stym root solid is in a specifically studied balance in favour the development of the crop during the first stages.

Recommended for:

+ROOT SOLID is used at the beginning of the plant activity to stimulate the growth of the roots and favour the activity of the plant in the first stages; in cases of stress, it also activates the plant. Its use is recommended for all kind of crops.

The relationship between the good root system and the proper formation of vascular tissues, is direct and together establish one of the most important bases for achieving a greate productive potential of the crop.

In addition to this, it is at the root that most hormones are responsible for regulating plant metabolism are synthesized in important processes as cell division, thickening and elongation; senescence, fruit setting and growth fruit, etc.

ACTIONS

- ***INDUCTION OF ABSORBENT ROOT HAIR FORMATION***
- ***ROOT STRENGTHENING, THANKS TO THE PARTICIPATION OF PHOSPHORUS AND POTASSIUM OF HIGH ASSIMILATION***
- ***INCREASING ITS GROWTH AND OBTAINING AN INCREASE IN THE VIGOR AND RESISTANCE OF THE CROP***
- ***IN A STRESSFUL SITUATION ALLOWS THE REINFORCEMENT OF THE ROOT ZONE NECESSARY FOR THE RECOVERY AND REACTIVATION OF CROPS.***
- ***INCREASES THE NUMBER OF THE CROPS***

APPLICATIONS

CROP	DOSAGE Kg/Ha	APPLICATION TIME
Substratum or substrate for trays	Dissolve 125-250g in enough water to humidify 100 kg of substrate.	Use the low dosage at temperatures below 20ºC and the high dosage at temperatures higher than 20ºC
Nurcery bad and trays	100g for each 200L of water.	Apply once a week, starting in the third week of seeding development
FIELD APPLICATIONS		
Transplant	100g for each 100L of water.	Apply at the time of transplantation or one week after applying 400g pero 100L of water, apply directing to the base of the plant.
Foliars	0.5 to 1 Kg/ha.	Apply in the second and third weeks after transplantation.
Drip irrigation	2kg/Ha.	DIlute the product in irrigation water. Apply to the 2nd, 3rd and 4th week after transplantation.

+ROOT SOLID is applied by sprinkler a dissolved solution in the amount of water indicated in the recommendation.

In the case of newly transplanted seedlings it is suggested to apply **+ROOT SOLID** when the root activity is starting (1-5 days after transplantation), be careful that the product may stay deep in the root. For best results, it is recommended to repeat the treatment once or twice at a weekly interval.

In establishment annual crops we suggest applying **+ROOT SOLID** at an interval of 10-15 days, preferably during the cutting season. In the case of perennials apply it on when it starts the "root development" or during fruiting. For a better result it is recommended to repeat the treatment 2 or 3 times.

It is recommended to be mixed with registered products in authorized crops, but compatibility test, It is suggested to avoid mixing with Calcium-base products non chelated.

ROOTING

tangel AGRO

www.tangelagro.com

AVAILABLE IN
1kg - 5kg - 10kg- 20kg -500Kg

IMPORTED FROM EU

tangelAGRO

SEAWEED EXTRACT

NEW

tangelAGRO

Datasheet

Seaweed extract
Foliar / Soil

EXTRA 100% SEAWEED

Seaweed extract. Bioactivator

MARE

COMPOSITION %w/v

Seaweed extract	20,0
Nitrogen (N)	4,0
Potassium (K_2O)	3,5
Alginic Acid	3,0
Mannitol	0,8
Density: 1,09 g/cc	

- **100% SEAWEED EXTRACT ASCOPHYLLUM**
- **BALANCED PROPORTION OF MACRO AND MICRONUTRIENTS**

CHARACTERISTICS

MARE is a product based on extracts of marine seaweed (Ascophyllum nodosum) obtained from a careful extraction method that retains all the properties of the molecules.

MARE contains natural phytohormones vitamins and carbohydrates (mannitol, alginates, organic acids and macronutrients. The proportion of these components in the extract is completely balanced. The combination of all its components works synergistically, providing a powerful activator effect on plant development.

MARE is especially recommended to prevent critical phenolollycal estages such as growth, flowering, fruit setting and ripening, and periods of adverse environmental conditions. Rapidly uptaked through the foliar and/or root system.

ACTIONS

- ***INCREASES TOLERANCE TO WATER STRESS, SALINE AND LOW TEMPERATURES.***
- ***ACTIVATES SPROUTING GROWTH.***
- ***IMPROVES FRUIT SETTING.***
- ***STIMULATES THE GROWTH OF FRUITS.***
- ***INCREASES TOLERANCE TO STRESS CAUSED DISEASES AND PESTS.***

APPLICATIONS

CROPS	TIMING	RATES OF USE
Pome fruit	Start of flowering Full flowering End of flowering Fruit size 5-10 mm	2 l/ha 2 l/ha 3 l/ha 3 l/ha
Stone Fruit	Start of flowering Petal fall After first fruit fall	3 l/ha 3 l/ha 4 l/ha
Strawberries	Early spring growth First bloom First fruit set	3 l/ha 3 l/ha 3 l/ha
Wine Grapes	5 - 6 leaf stage Before bloom Berry set / early shattering	3 l/ha 3 l/ha 3 l/ha
Table Grapes	1st Bloom, 2nd Fruit set, 3rd fruit size 5-10 mm, 4th Berry closure	3 l/ha
Tomatoes, Bell peppers, Melons, Aubergines, Cucumber, Squash	4 treatments starting at (first) bloom in 14-day intervals	2,5 l/ha or 250 ml/hl
Broccoli, Cauliflower, Cabbage	4 - 6 true leaf stage 10 - 14 days later head initiation	3 l/ha 3 l/ha 3 l/ha

CROPS	TIMING	RATES OF USE
Asparagus	14 days after end of harvest Approx. 3 weeks later	5 l/ha 5 l/ha
Avocado	Before flowering (cauliflower stage), full bloom and after flowering	3 l/ha
Rooting/ Transplant Solution	Root dripping of transplants prior to planting	0,01 %
Wheat	Early tillering Flag leaf fully enlarged	1 l/ha
Canola	Beginning of stem extension At first inflorescence	2-3 l/ha
Corn	4-6 leaf stage 8-10 leaf stage	1 l/ha

Note: MARE can be applied by spraying and sprinkling, together with pesticides as well drip irrigation /fertigation systems.

SEAWEED EXTRACT

tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L / 1000L
Plastic Bottle/IBC

Imported from EU

NEW

tangelAGRO

Datasheet

Seaweed extract
Foliar / Soil

EXTRACT 100% SEAWEED

Seaweed. Biostimulant action

MARE AMINO

COMPOSITION	%w/v
Seaweed extract	30,0
Total Nitrogen (N)	6,0
Free aminoacids	4,0
Alginic Acids	5,0
Mannitol	1,5
composición Density: 1,19 g/cc	

- 100% SEAWEED EXTRACT ASCOPHYLLUM
- AMINO ACIDS OF ENZYMATIC HYDROLYSIS. VEGETABLE ORIGIN
- BOOSTED WITH MICRO, MACRONUTRIENTS AND HUMIC ACIDS

CHARACTERISTICS

MARE AMINO is a product that combines in a balanced way the action of the L-α Amino acids of vegetable origin and seaweed extract of Ascophyllum Nodosum, obtaining a complete biostimulant.

MARE AMINO contains a balance of specific L-a-amino acids obtained by enzymatic hydrolysis with polysaccharides (such as alginic acid and mannitol, among others) and that exert a synergistic response in the stimulation of physiological processes previously cited

FLOWERING

FRUIT SETTING

RIPENING

ACTIONS

- *PROMOTES THE SYNTHESIS OF PROTEIN AND NATURAL GROWTH SUBSTANCES*
- *STIMULATION OF THE ROOT GROWTH*
- *ENHANCED UPTAKE OF NUTRIENTS INTO BOTH ROOTS AND LEAVES*
- *RESISTANCE TO DISEASE AND PEST*
- *PRECURSOR OF AUXINS, WICH STIMULATE PLANT VEGETATIVE*
- *IMPROVES FRUIT SETTING, RIPENING AND FRUIT COLOR, INCREASING QUALITY AND QUANTITY*

FOLIAR APPLICATION

Crops	Doses Application
Fruit trees, citrus, grapes, nut, olive	**2-3 L/ha per application (appl.)** 3-4 applications at 10-14 days intervals, from bud burst to flowering and during fruit developement
Horticultural crops: Capsicum, cucurbits, strawberries, tomatoes	**2-3 L/ha per appl.** Apply 2 weeks after transplantation for fast plant developement and during fruit growth
Lettuce and leaf vegetables	**1,5-2 L/ha per appl.** 2-3 applications with 7-10 days interval, starting with leaves well developed.
Potato	**2-3 L/ha per appl.** Apply during vegetative growth
Cereals	**1-2 L/ha per appl.** 1-2 applications from beginning of stem elongation to flowering

*General recommendation: **1-3 L/1000 L or 1-3 L/ha**

SOIL APPLICATION

Crops	Doses Application
Fertirrigation drip irrigation	**1-5 l/ha divided into several appl. of 2-3 l/ha per appl.** Apply every two weeks to mantain extended crop response

Cautions:

Avoid mixtures of **MARE AMINO** with copper or mineral oil products. Doses are approximate and may vary depending of the area characteristics and crops needs.

SEAWEED EXTRACT

tangelAGRO

www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L / 1000L
Plastic Bottle/IBC

Imported from EU

NEW

tangelAGRO

Datasheet

Seaweed extract
Foliar / Soil

EXTRACT 100% SEAWEED

MARE SOLID

COMPOSITION	%w/w
Seaweed Extract	25,0
Mannitol	1,0
Alginic Acid	1,0
Total Humic Extracts	40,0
Humic Acids	37,0
Fulvic Acids	3,0
Free Aminoacids	25,0

Seaweed. Biostimulant action

- **100% SEAWEED EXTRACT ASCOPHYLLUM**
- **POWERING BY HUMIC AND FULVIC ACIDS**

CHARACTERISTICS

MARE SOLID is a spray-dried, microgranular powder-based growth stimulant, manu- factured from Ascophyllum nodosum which improves the coloring of crops.

MARE SOLID contains natural substances that act as growth promoters, which increase the yield and vigor of crops and improves their color. **MARE SOLID** is indicated in metabolic and biochemical processes that increase the resistance of the plant against differents conditions of biotic and abiotic stress. **MARE SOLID** Incorporates Natural Phytohormones (auxins, cytokinins, betaines and gibberellines), fulvic and humic acids.

ACTIONS

- ***IMPROVES ROOT GROWTH AND PLANT DEVELOPEMENT.***
- ***IMPROVES PLANT NUTRITIONAL HEALTH.***
- ***INCREASES DESIRABLE YIELD.***
- ***IMPROVES PLANT VIGOR.***
- ***MAXIMIZES CROP POTENTIAL DURING PERIODS OF STRESS.***
- ***IMPROVES SEED GERMINATION.***

APPLICATIONS

Crops	Doses Application
FOLIAR APPLICATION	
Citrus	**75 g/hL** 1° preflowering, 2° petal fall and 3° fattening
Fruit trees	**75 g/hL** 3 applications, preflowering (C) stage (E) stage (G) petal fall
Vineyard and vine arbour	**75 g/hL** 1° separates inflorescences 2° floral buds and 3° fruit set
Olive tree	**75 g/hL** 1° application at the beginning of the period (spring), 2° at 15 days and 3° post-harvest
Horticultural crops	**75-100 g/hL** Make the 1° application with a good rooted and great leaves development. Then, each 15 days
Forage, industrials, ornamentals crops and vine grower	**50-75 g/hL** 1-3 applications since the beginnig of the growth stage
ROOT APPLICATION	
Root application	**0,75-1 Kg/Ha** Each 15-20 days, when the plant needs root activation
Application to take root	**1,5 Kg/Ha** 2-3 applicacions after the transplant or plantation, each week

General dosage. Foliar: 50-100 g/hL each application in every crops. **Root:** 1 Kg/Ha. **Maxim concentration:** 1% (1 Kg/hl of water)

Cautions: MARE SOLID can be mixed with all common formulations, except for products with alkaline reaction, oils, based on and sulfur, mineral oils and emulsions.

SEAWEED EXTRACT

tangelAGRO

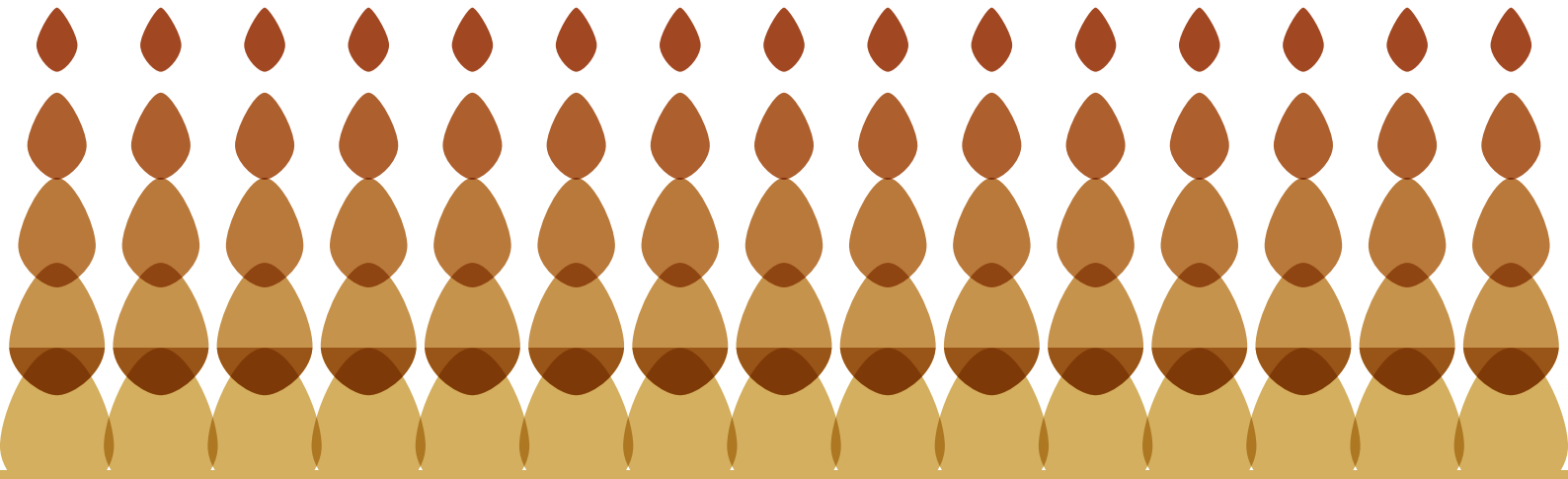
www.tangelagro.com

AVAILABLE IN
1Kg - 2Kg - 5Kg - 10Kg - 20Kg - 500Kg
Plastic bag/Big Bag

IMPORTED FROM EU

tangelAGRO

SEED DRESSING



tangelAGRO

Datasheet

Seed dressing
Foliar / Soil

SOWY SEED

COMPOSITION	%w/w
Total aminoacids	9
Free aminoacids	6
Total nitrogen (N)	5
Total organic matter	30
Seaweed extract	6

Biostimulant.
Seed treatment.

- **INCREASES THE PERCENTAGE OF SEED GERMINATION**
- **IMPROVES QUALITY AND YIELD**

CHARACTERISTICS

SOWY Seed is a product made from plant extracts and seaweed. The amino acids provides the necessary energy for germination of the seeds and invigorate the plants.
SOWY Seed increases the yield and quality of crops.

ACTIONS

- *EXCELLENT STICKING ABILITY TO SEED*
- *EFFECT ON THE UNIFORMITY AND SPEED OF EMERGENCE*
- *IMPROVES ROOT DEVELOPEMENT*
- *INCREASES THE PERCENTAGE OF SPEED GERMINATION*
- *PROTECTS THE SEED FROM DESSECATION*

APPLICATION

CROPS	L/1000Kg seeds	Water Qty. (L)	ml/Kg	Water Qty (ml)
Barley	1-1,5	10	1-1,5	10
Corn	2-2,5	12	2-2,5	12
Rape	3-4	12-15	3-4	12-15
Rice	2	10	2	10
Soy	2	10	2	10
Sunflower	1,5	10	1,5	10
Wheat	1-1,5	10	1-1,5	10

Apply **SOWY Seed** directly to the seed in a container that provides a good distribution of seeds.

Place half of the seeds in a container and apply half of the required product on the surface of the seeds. Mix and stir manually or using suitable machinery. Add the remaining seed and the product and stir.

SOWY Seed certainly applies in seeds treated with inoculants, fungicides and insecticides. It is advisable to first add the inoculant, fungicide and insecticide and then **SOWY Seed**

SEED DRESSING

tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 20L - 1000L
Plastic Bottle/IBC

IMPORTED FROM EU

tangelAGRO

SILICON

NEW

tangelAGRO

Datasheet

SIL Fe

Fertilizer
Foliar/Soil

COMPOSITION	%w/v
Silicon (SiO_2)	17,5
Iron (Fe)	3,0

Inmunity Activator - Biostimulant. Special for Extensive Crops.

- **DESIGNED FOR EXTENSIVE CROPS**
- **PREVENTIVE / CURATIVE ACTION**
- **OPTIMAL MISCIBILITY**
- **LOW COST OF TREATMENT (0.5L / HA)**

CHARACTERISTICS

Sil Fe activates natural immune systems of plants and stimulates their growth and development. It contains silicon which is easily absorbed by plants, strengthening cell walls and stimulating numerous vital processes in the plant.

Sil Fe as an immunity stimulant is one of the main elements of the strategy to support the natural resistance of plants STRESS CONTROL SYSTEM.

ACTIONS

- ***INCREASED PLANT TOLERANCE TO ADVERSE GROWING CONDITIONS (E.G. DROUGHT AND OTHER ABIOTIC STRESSES).***
- ***LIMITED INFLUENCE OF BIOTIC STRESS CAUSED BY PATHOGENS AND/OR PEST ATTACK.***
- ***STIMULATED ROOT GROWTH IN YOUNG PLANTS.***
- ***IMPROVED CROP YIELD, QUALITY AND STORAGE PARAMETERS.***

FOLIAR APPLICATION

Crops	Treatments	Water Volume
Cereals	2-4	200-300
Trees	2-4	500-1000
Horticultural	2-4	400-600

Dosage: 0,5 l/ha

SOIL APPLICATION

Irrigate the plants 3-6 times in the vegetative period with a 0.1% product solution (100ml of product in 100 liters of water).

LEAF FERTILIZATION:

Apply at critical times for plant growth and development every 10-14 days. To increase the resistance of plants to periodic water shortages - perform at least one treatment before the expected period of water shortage, and then 2-3 treatments every 5-7 days.

SILICON

tangelAGRO

www.tangelagro.com

AVAILABLE IN
0.5L - 1L - 5L - 10L - 20L
1000L Plastic Bottle/IBC

IMPORTED FROM EU

tangelAGRO

Datasheet

SIL-AA

Nutrient corrector
Foliar

Si Silicon

Nutrient corrector Silicon

COMPOSITION	%w/v
Silicon (SiO_2)	26,4
Potassium (K_2O)	10,2
Free Amino Acids	3,0

- **SILICON COMPLEXED WITH AA**
- **HIGH UPTAKE AND TRANSPORT OF Si AND K**
- **HIGH MISCIBILITY AND SOLUBILITY**

CHARACTERISTICS

Sil-AA is a concentrated product of Silicon and Potassium supplemented with plant amino acids, which improve the uptake and distribution of these two nutrients in plants.

Sil-AA is applied via foliar and is compatible with most pesticides except for those of alkaline reaction.

ACTIONS

- *INCORPORATES SILICON; ESSENTIAL/BENEFICIAL NUTRIENT FOR ALL CROPS.*
- *INCREASES RESISTANCE TO ABIOTIC STRESSES.*
- *IMPROVES NATURAL RESISTANCE TO FUNGAL PATHOGENS AND PEST.*
- *INCREASES POSTHARVEST LIFE.*
- *INTENSIFIED ROOT SYSTEM DEVELOPMENT.*
- *MORE QUALITY AND YIELD.*

APPLICATIONS

Crops	Details
Annuals: Vegetables, cut flowers, nursery, strawberries, sugarcane and wheat.	**1-2L/Ha or 200-400 ml/100L** **Foliar:** Apply in a minimum of 600 L water. Apply every 10-15 days from first visible leaf onwards. For best results apply first sprays before leaf hardening of crop. Apply to sugarcane during the lead-up to the dryer months.
Perennials: tree crops, vines, bananas and turf.	**1-2L/Ha or 200-400 ml/100L** **Foliar:** Apply in a minimum of 600 L water. Apply during leaf flush and after fruit set and every 10-14 days during disease events.
Soil and Drip or hydroponic nutrient solution.	**200ml/1000L** 6-8 time sper crop cycle. Maximum of 8 L/Ha.

Silicon and postharvest life or produce:

Researchers have shown that Silicon can inhibit ethylene which reduces the speed of aging and death of harvested plant parts. Silicon treated plant have also been shown to maintain their chlorophyll (green) content over a longer period. The end result is produce with better shelf life and appearance.

SILICON

tangelAGRO

www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

IMPORTED FROM EU

tangelAGRO

Datasheet

SIL-CA

Calcium Silicate Fertilizer
Soil/Foliar

Si Silicon

Calcium silicate fertilizer

COMPOSITION	%w/v
Silicon (SiO_3)	24,0
Calcium (Ca)	15,0
Density	1,40
pH	7,8

- NUTRITION
- FUNGICIDE
- MITICIDE
- INSECTICIDE

CHARACTERISTICS

SIL-CA is a fortifier of plant tissues for foliar and soil use whose purpose is to increase the tolerance of the crop to the attack of pathogens, increasing the life of the fruit and increasing the resistance of the plant and the fruit to the physical damages caused by friction, manipulation, etc.

Calcium is a key element in all stages of a plant's cycle. It is essential for growing reaching from germination up to ripeningof the fruits. Calcium makes vegetal tissues more resistant.

Resistance to Disease and Pest
Si deposition in the epidermis tissues provides a physical barrier to pathogens and insects, allowing for a reduction in the frequency of chemical applications

Cell Structure
Si accumulated in the epidermal tissues increases the mechanical estability of the plant. Reduces the incident of lodging

Photosynthetic Activity
The improved structure produces stronger stems with more erect leaves, increasing its ability to capture light

Uptake of Nutrients
Particularly Nitrogen, Phosphorous, Potassium and Micronutrients

Resistance to Environmental Stress
· Reduced drought and heat stress. The deposition of Si in the plant tissues reduces transpiration rates.
· Reduce salt stress by inhibiting Sodium uptake.
· Alleviate toxicity of heavy metals: Iron, Manganese, Cadmiun, Aluminium, and Zinc by regulating plant uptake

Post Harvest Life
Si can associate with cell wall proteins where it might exert an active production of defence compounds

DOSAGE AND APPLICATION

Crops	Doses (L/ha/application)	
	SOIL	FOLIAR
Garlic and onion	5-10	1-4 0.5-1
Banana	7-15	1-4
Berries	5-10	1-3
Crucifers	5-10	1-4
Cucurbitaceae		
Fruit trees	5-10	2-4
Gramineae		1-4
Lettuce		1-4
Legumes		
Ornamental	7-15	2-6
Papaya	5-10	1-6
Grass	10-40	
Solanaceous	5-10	1-4
Carrot	5-10	1-3

SILICON
tangelAGRO

www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

IMPORTED FROM EU

tangelAGRO

Datasheet

SIL-CA Mg

Calcium Silicate Fertilizer
Soil/Foliar

Si Silicon

COMPOSITION	%w/v
Silicon (SiO_2)	27,00
Calcium (CaO)	23,50
Magnesium (MgO)	8,25
Density	1,50
pH	5-6

CALCIUM and magnesium
SILICATE FERTILIZER

CHARACTERISTICS

SIL Ca Mg is used as a source of Silicon, Calcium and Magnesium in plant nutrition programs.
The application of this product prevents and corrects Calcium deficiencies aggravated by slight deficiencies of Magnesium and Boron. Regular foliar application of **SIL Ca Mg** prevents the effect of calcium deficiencies (apical necrosis, fruit cracking and early maduration) and Magnesium deficiencies (photosyntheticc activity reduction). Crops treated with **SIL Ca Mg** have better vegetative growth and higher harvest yield.

Resistance to Disease and Pest
Si deposition in the epidermis tissues provides a physical barrier to pathogens and insects, allowing for a reduction in the frequency of chemical applications

Cell Structure
Si accumulated in the epidermal tissues increases the mechanical estability of the plant. Reduces the incident of lodging

Photosynthetic Activity
The improved structure produces stronger stems with more erect leaves, increasing its ability to capture light

Uptake of Nutrients
Particularly Nitrogen, Phosphorous, Potassium and Micronutrients

Resistance to Environmental Stress
· Reduced drought and heat stress. The deposition of Si in the plant tissues reduces transpiration rates.
· Reduce salt stress by inhibiting Sodium uptake.
· Alleviate toxicity of heavy metals: Iron, Manganese, Cadmiun, Aluminium, and Zinc by regulating plant uptake

Post Harvest Life
Si can associate with cell wall proteins where it might exert an active production of defence compounds.

DOSAGE AND APPLICATION

Crops	Dose (Foliar cc/100L)	Application
Horticultural	300-400	Apply 3-4 times at 2 weeks intervals since 15 days post-transplantation
Grapevine and Kiwi	200-300	Apply since 20 cm buds every 15 days (min. 3 applications)
Pome and Stone fruit	200-300	Apply since newly formed fruits until colour change
Pome fruits	250-350	Start applications in newly formed fruits, applying at 15 days intervals
Citrics	300	Apply during bud growth during spring and fall
Berries	200-300	Apply since budding until harvest at 15 days intervals
Potato	300-400	Start applications 30 days after emergence to improve photosynthesis

Caution

Avoid contact with eyes, food or drinks. Keep out reach of children. If swallowed seek medical advice.

Do not store in direct sunlight. Store between 5°C and 35°C.

Shake it before use

SILICON
tangelAGRO
www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

IMPORTED FROM EU

tangel AGRO

SOLAR PROTECTOR

tangelAGRO

Datasheet

PROTECT SUN FLOW

Fertilizer
Foliar/Soil

COMPOSITION	%w/v
Calcium (CaO_3)	34,0
Silicon ($CaSiO_3$)	5,0
pH (solution 1%) 7-8	

Micronized calcium carbonate liquid

- **INDIRECT PROTECTION OF THE PLANT AND THE FRUITS**
- **PROTECTS THE CROPS FROM UV RAYS**

CHARACTERISTICS

PROTECT SUN FLOW is a micronized calcium carbonate liquid sunscreen and next-generation silicon, designed to provide protection to the plant and fruit during the period of growth, improving the health of the plant and eliminating sunburn.
The foliar application of **PROTECT SUN FLOW** at the defined dosage, allows to create an indirect protection of the plant and the fruits from sunburn and more generally from thermal stress. The homogeneous film that forms on the plant protects the crops from UV rays: reducing absorption and increasing the light difusion.

ACTIONS

- *Reduces the temperature in plants and fruits by 3 - 4 °C*
- *Reduces damage from sunburn*
- *Improvement of post-harvest quality*
- *Protects against water stress*
- *Enhances the fruit color*
- *Extends post-harvest life*
- *Reduces the attack of insects*
- *Prevents mildew and oidium*
- *Easy removal in post-harvest*

APPLICATION

CROP	Application per season	Amount of formulated /Ha
Apples	3	20-30 L/Ha
Citrus	3	20 L/Ha
Tomatoes	3	20 L/Ha
Melons	2	20 L/Ha
Watermelons	2	20-30 L/Ha
Grape	3	10-20 L/Ha
Pomegranate	3	20 L/Ha
Avocado	3	20 L/Ha

CROP	Amount of water /Ha	Total season /Ha
Apples	800-1000 L/Ha	800-1000 L/Ha
Citrus	800-1000 L/Ha	800-1000 L/Ha
Tomatoes	750 L/Ha	750 L/Ha
Melons	1000 L/Ha	1000 L/Ha
Watermelons	1000 L/Ha	1000 L/Ha
Grape	1000 L/Ha	1000 L/Ha
Pomegranate	1000 L/Ha	1000 L/Ha
Avocado	1000 L/Ha	1000 L/Ha

! Shake it before use

Caution !
Avoid contact with eyes, food or drinks. Keep out reach of children. If swallowed seek medical advice. Do not store in direct sunlight. Store between 5°C and 35°C

SOLAR PROTECTOR

tangelAGRO www.tangelagro.com

AVAILABLE IN
1L - 5L - 10L - 20L - 1000L
Plastic Bottle/IBC

IMPORTED FROM EU

tangel AGRO

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