The FertiLikers

ANOREL

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About Anorel

Anorel is a Belgium based supplier for water soluble fertilizers and biostimulants.

Since its establishment, the company has constantly invested in new technologies in the horticultural field, resulting in a wide range of fertilizers providing in all the needs for your crops.

Our vision

At Anorel, price / quality is always at the forefront. To ensure this, we cooperate very closely with the suppliers of our raw materials. We implement our own procedures, conduct comprehensive quality checks and seek solutions to problems. In addition, we are constantly trying to improve our efficiency. We deliver products of the highest possible standard.

International activities

Anorel is currently active in over 35 countries on five continents.

We provide our products all over the world by the use of regional independant distributors. If you are interested in our products, do not hesitate to contact us, we are always open to new collaborations.

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STRAIGHT FERTILIZERS

Straight Fertilizers

Do you like to keep full control over your plant nutrition? Does your crop currently only need the addition of 1 or 2 nutrients? Then our straight fertilizers offer the perfect solution!

All our straight fertilizers are suited for application through all fertigation systems.

Our straight fertilizers are available in packing of:
- 25 kg bags in PE or LWPP quality on 1200 kg pallets.
- 1200 kg Big Bags on pallets.

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Monafos 12 61 0

Mono ammonium phosphate

Monafos is a completely water soluble fertilizer providing ammoniacal nitrogen and phosphorus.

Dose & instruction of use in fertigation

Crop	Application date	Total dosage in kg/ha
Fruit trees	At start of the fertigation until 4 to 6 weeks before harvesting.	100-300 kg/ha
Vineyards	At start of the fertigation until end of flowering period.	50-200 kg/ha
Citrus	During entire growth cycle.	150-200 kg/ha
Vegetable crops in greenhouses and open field	At start of the fertigation until 3 to 4 weeks before harvesting	100-300 kg/ha
Banana	Use during entire growth cycle	200-300 kg/ha

Monafos is dissolved in tank B.

Chemical composition

Total nitrogen (N)	12%
Ammonical nitrogen (NH_4)	12%
Phosphorus pentoxide (P_2O_5)	61%
Moisture H_2O	0,15%

Physical properties

pH (1% H_2O Solution)	4,35
Solubility (20°C in H_2O)	250 g/liter
Appearance	Crystals

Kalafos 0 52 34

Mono potassium phosphate

Kalafos MKP fertilizer is the perfect source for a daily supply of phosphorus and potassium, especially when nitrogen fertilization should be limited.

Dose & instruction of use in fertigation

Crop	Application date	Total dosage in kg/ha
Citrus, Fruit trees	At start of the fertigation until the end	100-300 kg/ha
Vineyards	At start of the fertigation until end of flowering period.	50-200 kg/ha
Vegetable crops in greenhouses and open field	At start of vegetative growth until 3 to 4 weeks before harvesting	100-300 kg/ha
Banana	Use during entire growth cycle	200-300 kg/ha

Kalafos MKP is dissolved in tank B.

Chemical composition

Potassium oxide (K_2O)	34%
Phosphorus pentoxide (P_2O_5)	52%
Moisture H_2O	0,15%

Physical properties

Purity	99%
pH (1% H_2O Solution)	4,6
Solubility (20°C in H_2O)	183 g/liter
Appearance	Crystals

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Ureafos 17 45 0

Urea phosphate

Due to its acidic character *Ureafos* will increase the nutrient uptake efficienty.

Chemical composition

Total nitrogen (N)	17%
Ureic nitrogen (NH_2)	17%
Phosphorus pentoxide (P_2O_5)	45%
Moisture H_2O	0,2%

Physical properties

Purity	99%
pH (1% H_2O solution)	1,8
Solubility (20°C in H_2O)	80g/100g H_2O
Appearance	Crystals

Dose & instruction of use in fertigation

Application	Dose (kg/1000l)	Conc. %
Fertigation in soil grown crops	0,1 - 0,5	0,01 - 0,05
Foliar spraying	1 - 30	0,1 - 3

To neutralize 1mm of bicarbonate in irrigation water use 158mg of Ureafos.

Maganit 11 0 0 + 16

Magnesium nitrate

Maganit supplies plants with essential magnesium and nitrogen in a plant available form. *Maganit* is free of ammonium.

Chemical composition

Total nitrogen (N)	16%
Nitric nitrogen (NO_3)	16%
Magnesium oxide (MgO)	16%

Physical properties

Purity	98%
EC (1% H_2O solution)	7,6 mS/cm
Solubility (20°C in H_2O)	2250 g/liter
pH (1% H_2O Solution)	± 7
Appearance	Flakes Granular Prills Crystals

Dose & instruction of use in fertigation

Crop	Application date	Total dosage in kg/ha
Citrus, Fruit trees	Just after flowering stage	100-200 kg/ha
Vineyards	Just after bud opening until main vegative growth stage	100-150 kg/ha
Vegetables	At start of the fertiga-tion until beginning of fruit setting	150-300 kg/ha

Maganit can be used in tank A and B. It can be mixed with all water soluble fertilizer, except for concentrated phosphate and sulphate solutions.

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Magasul

Magnesium sulphate

Magasul supplies plant essential magnesium and sulphur in plant available form. *Magasul* is suitable as a foliar fertilizer.

Dose & instruction of use in fertigation

Crop	Application date	Total dosage in kg/ha
Citrus, Fruit trees	Just after flowering stage	150-250 kg/ha
Vineyards	Just after bud opening until main vegative growth stage	100-150 kg/ha
Vegetables	At start of the fertigation until beginning of fruit setting	150-300 kg/ha

Magasul can be used in tank B. It can be mixed with all water soluble fertilizer, except for calcium fertilizers.

Dose & instruction for foliar use

Crop	Application date	Total dosage in kg/ha
Citrus, Fruit trees	3 - 4 applications, just after flowering	3 - 5 kg/ha
Vineyards	3 - 4 applications, to prevent drying of stalk	4 - 12 kg/ha
Vegetables	1 - 4, at start of the fertigation until beginning of fruit setting	5 - 10 kg/ha

Chemical composition

Magnesium oxide (MgO)	16%
Sulpur trioxide (SO_3)	33%

Physical properties

Purity	> 99%
pH (5% H_2O Solution)	± 7
Appearance	Crystals
Solubility (20°C in H_2O)	71 g/liter

STRAIGHT FERTILIZERS

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Kalasul 0 0 50 +46

Potassium sulphate

Kalasul is ideal for use in chlorine sensitive crops, as it contains virtually no chlorine.*Kalasul* contains a low salt index (SI) , which is the reason why it is widely used under saline conditions.

Chemical composition	
Potassium oxide (K_2O)	>50%
Sulphur trioxide (SO_3)	>46%
Chloride (Cl)	<1,5%

Physical properties	
pH (5% H_2O Solution)	3
Appearance	Crystals
Solubility (20°C in H_2O)	110 g/L

Dose & instruction of use in fertigation

Application	Application date	Total dosage in kg/ha
Fertigation in soil grown crops	At the beginning of the season	120-400 kg/ha
Fertigation in substrate	During the entire growth period	200-600 kg/ha

Kalasul can be used in tank B. It can't be mixed with calcium fertilizers.

Murapot

Potassium chloride

Recommended when

When the crops are field fertigated

When the irrigation water has an EC less than 0,6 mS/cm

When the fruit taste needs to be improved and the crop tolerates / needs chloride

When the EC needs to be increased / salinity (e.g. to strong generative growth.)

When the costs of fertilization need to be decreased

When the use of nitrate needs to be reduced

Not recommended when:

In situations where the use of chlorides is restricted/ prohibited

When you grow chloride sensitive crops under risky conditions

When the circumstances ask for a fertilization program with a lower EC, when the crop is salt sensitive or when the EC of the irrigation water is high.

Chemical composition	
Potassium oxide (K_2O)	> 60,0%
Moisture H_2O	< 0,5%

Physical properties	
Purity	> 95,0%
Solubility (20°C in H_2O)	330-350 g/ liter
Bulk density	1-1,07 T/m³
Appearance	Powder

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Potanit 13 0 46

Potassium nitrate

Anorel Potanit is a high quality NK-fertilizer, designed for optimal plant nutrition.

Potassium nitrate provides nitrate nitrogen for the vegetative growth and potassium for the generative growth of healthy crops.

Anorel Potanit is a crystalline product, which dissolves very easily in water and can therefore ideally be applied in all types of fertigation systems.

Potanit benefits

- ***Fully and quickly water-soluble.***
- ***Chloride-free.***
- ***Free-flowing.***
- ***Applicable in all types of fertigation.***

Dose & instruction of use in fertigation

Crop	Application date	Total dosage in kg/ha
Citrus, Fruit trees	At the start of the fertigation until the end	100-400 kg/ha
Vineyards	At the start of the fertigation until the end	50-300 kg/ha
Vegetables crops in greenhouses and open field	At start of vegetative growth until 3 to 4 weeks before harvesting	100-300 kg/ha
Banana	Use during entire growth cycle	200-500 kg/ha

Potanit can be used in tank A and B. It mixes well with most other fertilizers.

Chemical composition

Total nitrogen (N)	> 13%
Nitric nitrogen (NO_3)	> 13%
Potassium oxide (K_2O)	> 46%
Moisture H_2O	0,3%

Physical properties

Purity	> 99%
pH 10% solution	9
Solubility (20°C in H_2O)	379 g/liter
Appearance	Crystals Prills

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Calanit 15,5 0 0 + 26,5

Calcium nitrate

Calanit is calcium nitrate that contains ammonium nitrate and water as a double salt of calcium nitrate and ammonium nitrate. *Calanit* is the main source of calcium in fertigation, especially when irrigation water is low in calcium. *Calanit* is free of chlorine and will prevent chlorine accumulation in the leaves.

Chemical composition	
Total nitrogen (N)	15,5%
Nitric nitrogen (NO_3)	14,5%
Ammoniacal nitrogen (NH_4)	1%
Calcium oxide (CaO)	27%

Physical properties	
pH (1% H_2O Solution)	5-7
Appearance	Granular

Dose & instruction of use in fertigation

Crop	Application date	Total dosage in kg/ha
Fruit trees	At the end of flowering and beginning of fruit growth	200-500 kg/ha
Vineyards	At start of the fertigation until end of flowering period.	100-200 kg/ha
Citrus	2 - 3 applications	200-500 kg/ha
Vegetable crops in greenhouses and open field	During entire growth cycle	100-300 kg/ha
Banana	Use during entire growth cycle	200-500 kg/ha

Calanit is dissolved in tank A. Calanit can be mixed with all water soluble fertilizers except with phosphates or sulphates.

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COMPLEX FERTILIZERS

Complex Fertilizers

These fertilizers are obtained by a controlled reaction between several straight fertilizers.

Our complex fertilizers are available in packing of:
- 25 kg bags in PE or LWPP quality on 1200kg pallets.
- 1200 kg Big Bags on pallets

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Calamag 13,6 0 0

Calcium nitrate + magnesium nitrate

Both, magnesium and calcium, replace sodium retained on the soil clay colloids so that it can then be leached away from the rhyzosphere. They allow to maintain the balance between calcium and magnesium in the soil.

Calamag benefits

- ***Magnesium as magnesium nitrate and not as magnesium sulphate, as NO_3 is more needed and SO_4 was already given in the first NPK gift.***
- ***Calcium not together with potassium, as potassium slows the uptake of calcium.***
- ***Boron to improve uptake of calcium.***
- ***Boron is necessary for normal cell division, nitrogen metabolism and protein formation.***

Physical properties	
Appearance	White prills

Chemical composition	
Total nitrogen (N)	>13,6%
Nitric nitrogen (NO_3)	13%
Ammoniacal nitrogen (NH_4)	0,6%
Calcium oxide (CaO)	16%
Magnesium oxide (MgO)	6%
Boron (B)	0,1%

Nitafos 28 14 0

Ammonium nitrate + mono ammonium phosphate

Nitafos is a new, specially tailored NP fertilizer, with high nitrogen content, for fertigation. *Nitafos* is of special interest for crops in the phenological stage of high demand for nitrogen.

This microprilled NP fertilizer is safe in use, acidifies the nutrient solution immediately and thus lowers the use of acids.

Nitafos benefits

- ***Can be mixed with any non-Ca containing fertilizer.***
- ***Non hazardous.***
- ***Low in chlorine and sodium.***
- ***Prills reduces risk of caking.***
- ***Exceptional high nutrient analysis.***
- ***To be used in soil and soilless irrigation systems.***

Chemical composition	
Total nitrogen (N)	28%
Nitric nitrogen (NO_3)	13%
Ammoniacal nitrogen (NH_4)	15%
Phosphorus pentoxide (P_2O_5)	14%
Moisture H_2O	0,3%

Physical properties	
pH (1% H_2O solution)	3,66
Solubility (20°C in H_2O)	400g/liter
Purity	99,1%

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Pentahypp

Pentahypp is a solid acidic PK fertilizer (pH2,2) safe in use. It is subject to no special limitation imposed on warehousing, although every bag contains 50% pure phosphoric acid or 60 % commercial Phosphoric acid 85%!

Farmers can buy a crystalline acid without having to care about safety regulations, consignment drums or waste drums.

Pentahypp benefits

- ***Keeps irrigation system clean.***
- ***Increases solubility of secondary plant nutrients (Mg & Ca).***
- ***Eliminates use of hazardous acids.***
- ***Can be used in Ca containing NPK's.***
- ***Low in Chlorine and Sodium.***
- ***Decreases volatilization losses of N.***
- ***Exceptional high nutrient analysis.***
- ***For application in soil and soilless irrigation systems.***
- ***Suited for soils with wide pH-range***

Chemical composition	
Potassium oxide (K_2O)	20%
Phosphorus pentoxide (P_2O_5)	60%
Moisture H_2O	0,15%

Physical properties	
pH (1% H_2O Solution)	2,2
Solubility (20°C in H_2O)	670 g/liter
Purity	99,1%

Dose & instruction of use in fertigation

Crop	Application date	Total dosage in kg/ha
Citrus, Fruit trees	At the start of the fertigation until 4 to 6 weeks before harvesting	150-200 kg/ha
Vineyards	At start of the fertigation until end of flowering period.	150-200 kg/ha
Vegetable crops in greenhouses and open field	At the start of the fertigation until 3 to 4 weeks before harvesting	50-100 kg/ha
Flower crops	Use during entire growth cycle	30-50 kg/ha

Pentahypp is dissolved in tank B. It keeps the solution in tank B clear.

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Potacal 14 0 23+13CaO

Potassium nitrate
+ calcium nitrate

Potacal contains the essential elements potassium and nitrogen in a form that is readily available to the plant (K_2O and NO_3).

K_2O improves plant durability and improves yield quality. NO_3 is important for the overall plant growth.

Further it contains the secondary element calcium. This is important in fertigation, especially when irrigation water is low in calcium.

Potacal benefits

- ***Fully watersoluble.***
- ***Potassium and nitrogen direct available for the plant.***

Chemical composition	
Total nitrogen (N)	14%
Nitric nitrogen (NO_3)	13,5%
Potassium oxide (K_2O)	23%
Calcium oxide (CaO)	13%

Pomag 10 0 35+8MgO+25SO_3

Potassium nitrate
+ magnesium nitrate

Pomag contains the essential elements potassium and nitrogen in a form that is readily available to the plant (K_2O and NO_3).

K_2O improves plant durability and improves yield quality. NO_3 is important for the overall plant growth.

Further it contains the secondary element magnesium in a plant available form.

Potamag benefits

- ***Contains nitrate, potassium and magnesium in plant available form.***
- ***Fully watersoluble.***
- ***Easy granules.***

Chemical composition	
Total nitrogen	10%
Nitric nitrogen (NO_3)	10%
Potassium oxide (K_2O)	35%
Magnesium oxide (MgO)	8%
Sulphur trioxide (SO_3)	15%

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Triafos 0 47 47

Triafos is a very effective and high quality source of polyphosphates. When dissolved, polyphosphates bind cations such as Ca^{2+} and Mg^{2+} reducing precipitation. This keeps the cations absorbable for the plant resulting in better plant nutrition. Moreover, polyphosphates also have a cleaning effect on the pipes and fertilizer tanks because there is no precipitation.

The polyphosphates are slowly converted into plant useable orthophosphate, thus forming a longterm phosphate source for the plant. Unlike dissolved polyphosphate products, *Triafos* powder is stable, the conversion of polyphosphates only takes place after solution. *Triafos* can be used in the various fertigation systems where nutrients are given near the roots.

Chemical composition	
Potassium oxide (K_2O)	47%
Phosphorus pentoxide (P_2O_5)	47%
as polyphosphates	31%

Conversion table
Starting from a fertilizer tank of 1000L (100x), working with MKP and KNO_3 as basis, the following conversion applies:

Nitric acid 38%	MKP Kalafos	KNO_3 Potanit	Triafos
+ 10L	- 23kg	- 8kg	+ 25kg

Triafos benefits

- ***Effective source of phosphates***
- ***Low in chloride***
- ***Field application and hydroponics***
- ***Cleaning effect on fertilizer tanks and pipes***

Pentafos 15 50 0

Pentafos is a free flowing acidic crystalline NK-fertilizer enhancing the availability of P_2O_5.

Pentafos is a free flowing acidic crystalline NK-fertilizer (15-50) enhancing the availability of P_2O_5, trace elements, Calcium and Magnesium. It avoids inorganic scaling in the drip system, keeps the system clean and is suitable for application in soil and soilless irrigation systems.

Chemical composition	
Total nitrogen (N)	15%
Phosphorus pentoxide (P_2O_5)	50%

Pentafos benefits

- ***Free flowing acidic crystalline NK fertilizer with a pH lower than 2***
- ***Enhances availability of P_2O_5***
- ***Avoids inorganic scaling in the drip system***
- ***Enhances availability of trace elements, calcium & magnesium***
- ***Non-hazardous***
- ***Keeps irrigation system clean***
- ***Exceptional high nutrient analysis***
- ***For application in soil and soilless irrigation systems***

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Azolite 26 0 0 + 27SO_3

Azolite is the ideal source of nitrogen!

Azolite has a high nitrogen content but is nonetheless non-hazardous, so it can be freely traded.

The product is available in granular form (3 to 5 mm) and is 100% watersoluble.

Azolite benefits

- *Urea free*
- *Harmless*

Chemical composition	
Total nitrogen (N)	26%
Nitric nitrogen (NO_3)	7%
Ammoniacal nitrogen (NH_4)	19%
Sulphur trioxide (SO_3)	27%

Anas28 28 0 0 + 20SO_3

Anas28 is the ideal source of nitrogen.

Anas28 has a high nitrogen content but is nonetheless non-hazardous, so it can be freely traded.

The product is available in granular form (3 to 5 mm) and is 100% watersoluble.

Anas28 benefits

- *10% fast-acting nitrate*
- *18% ammoniacal nitrogen*
- *Urea free*
- *Harmless*

Chemical composition	
Total nitrogen (N)	28%
Nitric nitrogen (NO_3)	10%
Ammoniacal nitrogen (NH_4)	18%
Sulphur trioxide (SO_3)	20%

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NPK WATER-SOLUBLE FERTILIZERS

NPK Water-soluble Fertilizers

Only the best raw materials are used for the production of our NPK fertilisers. To ensure this quality we work together with producers all over the world. We implement our own control mechanisms and help resolve issues when they present themself.

The actual production of the NPK's happens in the Netherlands. The process is fully automated to guarantee a uniform and high-standard product.

As a standard all of our NPK's are produced and sold in 25 kg bags, either under the Alimentar or Polyamix brand.

Our NPK fertilizers are available in packing of:
- 1 kg and 2 kg pouches.
- 10 kg, 15 gk and 25 kg bags in PE or LWPP quality.
- Bigbags of variable sizes.

Upon request other packagings, brands or labels can also be used.

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Polyamix

Polyphosphate enforced fertilizers

Anorel has a know-how of producing all possible NPK and PG mixtures based on water-soluble raw materials.

Eight different NPK formulations rich in polyphosphates will be produced under our house brand, 4 ammonium nitrate based, 4 urea based.

Benefits of polyphosphates

- ***Polyphosphates are stable in the soil solutions and will decompose (root enzymatic decomposition) into phosphates for assimilation. Polyphosphates therefore assure phosphor nutrition in conditions where phosphate nutrition is not efficient. Even in hydroponic nutrition the efficiency of Polyphosphates is proven.***
- ***Polyphosphates have the capacity to chelate calcium ions, making Calcium even in alkaline conditions better available to crops.***
- ***Polyphosphates have a strong anti-scaling property, keeping nutritional solutions and drip irrigation lines free from mineral deposits, which is of special use to treat irrigation water charged with iron.***

Ammonium nitrate based

- *24 10 10 + 1.5 + TE*
- *14 30 14 + 2 + TE*
- *10 10 36 + 2 + TE*
- *18 18 18 + 1 + TE*

Urea based

- *25 15 15 + 1 + TE*
- *11 40 11 + 2 + TE*
- *12 12 34 + 2 + TE*
- *20 20 20 + 0.5 +TE*

Ammonium nitrate based benfits

- *Quick acting nitrogen*
- *Highest concentration nitric nitrogen*

Urea based benfits

- *Highest concentration*
- *Competitive prices*
- *Foliar/dripirrigation*

Packing

Available in 25 kg bags in PE or LWPP quality on 1200 kg pallets.
Available in 1200 kg Big Bags on pallets.
Available in 1kg aluminium bags.

NPK FERTILIZERS

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Customized NPK products

Looking for a fertilizer with a specific NPK-content? Do you need special packaging or branding? We find you the best and most suitable raw materials to deliver a product exactly as you want it!

Tailor made

Our standard range of NPK fertilizers offers a balanced nutrition for a broad range of plants under normal conditions. However, for certain specific conditions or crops they may still not be optimal. But Anorel can offer the solution! Together with you we will search for the most suitable fertilizer mix for your situation. Our long time experience in cooperating with farmers in the field all over the world is at your service!

Production

Only the best raw materials are used for the production of our NPK fertilisers. To ensure this quality we work together with producers all over the world. We implement our own control mechanisms and help resolve issues when they present themself.

The actual production of the NPK's happens in the Netherlands. The process is fully automated to guarantee a uniform and high-standard product.

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Unibag

A fertigation system with A and B-tank is traditionally rather labour-intensive. Manually adding fertilizers in 25 kg bags takes time and effort. The Unibag can fix that for you. Based on your fertigation advice we produce 1 bigbag for each tank with the exact quantity and composition you require. Simply empty the bag, stirr, and it's ready to go.

Specifications

The bigbags we produce can contain up to 1200 kg of fertilizers. As a result about 10 000L of nutrient solution can be produced with 1 action. The weight is not fixed but can be changed depending on your needs. This way weighing and calculating fertilizers for the tanks becomes unnecessary!

All raw materials for the production of these Unibags are premium grade and fully mixed. Therefore we can guarantee a product that is completely soluble and stays free flowing for a long time.

Flexibility

For the Belgian market we can produce Unibags on very short notice, allowing farmers to adjust quickly to new fertigation advices.

For international markets logistics become slightly more complex, resulting in minimum quantities and longer delivery times. However, product properties stay the same, making it the perfect sollution for crops with rather constant nutrient requirements.

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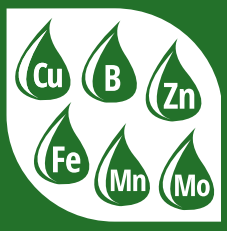

TRACE ELEMENTS

Trace Elements

Trace elements are essential micronutrients for plants. They are only needed in very small quantities but are vital for a complete nutrition nontheless. They play an essential role in physiological processes such as photosynthesis, cell replication and osmoregulation. We offer these elements both in chelated and non-chelated form. On request we can also provide tailor made trace element mixes.

Our trace elements are available in packing of:
- 1 kg aluminium bags.
- 25 kg paper bags or WPP-PE bags.

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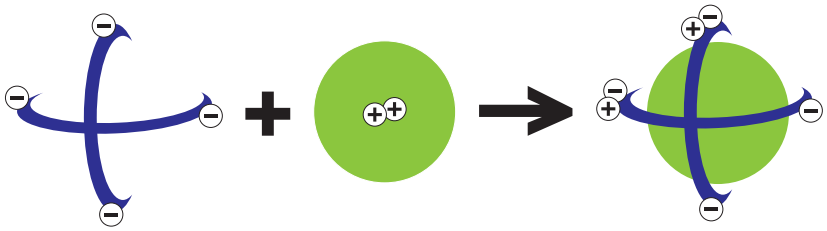
Chelates

What is a chelate

A chelate is a stable chemical compound comprised of a metal cation and an organic compound-chelating agent. This agent (the ligand) creates a heterocyclic ring with multiple weak bonds around the cation. This way the ion is slightly shielded from external influenced by its organic surrounding shell.

In agriculture, the process of chelation is used primarily on microelements: iron (Fe), zinc (Zn), manganese (Mn) and copper (Cu). In the absence of chelating agents these micro-elements are highly susceptible to increases in pH or the presence of phosphate salts. They typically convert the elements to insoluble solids that are of no nutritional value to the plants. Chelating agents ensure that these metal ions stay in soluble, plant available form.



Chelating agent *Metal cation* *Chelated metal*

Benefits of chelates

- *Easily transported into plant tissues*
- *Quickly assimilated by plants*
- *High effectiveness at low rates*
- *High pH stability*
- *Fast acting even in adverse weather conditions*
- *Compatible with most commonly used plant protection products and foliar fertilizers*

EDTA Chelates

EDTA (Ethylenediaminetetraacetic acid) is the most widely used, cost effective chelating agent.

EDTA prevents micronutrient precipitation, keeping them available for plants.

EDTA is stable at pH higher or equal to 4.

EDTA is compatible with most water-soluble fertilizers.

EDTA range

- *Anafer 13 (Fe-EDTA 13%)*
- *Anazin 15 (Zn-EDTA 15%)*
- *Anacop 14 (Cu-EDTA 14%)*
- *Anaman 13 (Mn-EDTA 13%)*
- *Also available upon request: Mg-EDTA, Ca-EDTA...*

Anafer 13
Fe-EDTA 13%

Anacop 14
Cu-EDTA 14%

Anazin 15
Zn-EDTA 15%

Anaman 13
Mn-EDTA 13%

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Anafer 13

Fe-EDTA 13%

Dose & instruction of use

Culture	Method	Dose in kg/ha
Agricultural plants	Foliar	0,5 - 1
Fruit trees	Foliar	0,5 - 1
	Fertigation	5 - 10
Grapevine	Foliar	0,5 - 1
	Fertigation	4 - 8
Soft fruit and vegetables	Foliar	0,2 - 1
	Fertigation	4 - 8
Ornamental plants	Foliar	0,2 - 1
	Ferttigation	4 - 8

Chemical composition

Iron (Fe) chelated by EDTA	13%

Physical properties

Solubility	900 g/L
pH stability	4 - 10
EC 1% solution	3,24
pH 1% solution	7,79

Anazin15

Zn-EDTA 15%

Dose & instruction of use

Culture	Method	Dose in kg/ha
Agricultural plants	Foliar	0,5 - 1
	Fertigation	1 - 3
Fruit trees	Foliar	0,5 - 1
	Fertigation	2 - 4
Soft fruit and vegetables	Foliar	0,2 - 1
	Fertigation	1 - 3
Ornamental plants	Foliar	0,2 - 1
	Fertigation	1 - 3
	Soil application	2 - 4

Chemical composition

Zinc (Zn) chelated by EDTA	15%

Physical properties

Solubility	900 g/L
pH stability	4 - 11
EC 1% solution	3,19
pH 1% solution	6,36

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Anacop 14

Cu-EDTA 14%

Dose & instruction of use		
Culture	**Method**	**Dose in kg/ha**
Agricultural plants	Foliar	0,2 - 1
	Fertigation	1 - 3
Fruit trees	Foliar	0,5 - 1
	Fertigation	1 - 3
Soft fruit	Foliar	0,2 - 1
	Fertigation	1 - 3
Ornamentals	Foliar	0,1 - 0,5
	Fertigation	0,5 - 0,8

Chemical composition	
Copper (Cu) chelated by EDTA	15%

Physical properties	
Solubility	1000 g/L
pH stability	4 - 11
EC 1% solution	3,00
pH 1% solution	5,84

Anaman 13

Mn-EDTA 13%

Dose & instruction of use		
Culture	**Method**	**Dose in kg/ha**
Agricultural plants	Foliar	0,25 - 1
	Fertigation	1 - 3
Fruit trees	Foliar	0,5 - 1
	Fertigation	2 - 3
Soft fruit and vegetables	Foliar	0,25 - 1
	Fertigation	3 - 5
Ornamental plants	Foliar	0,25 - 1
	Fertigation	3 - 5

Chemical composition	
Manganese (Mn) chelated by EDTA	13%

Physical properties	
Solubility	1000 g/L
pH stability	4 - 10
EC 1% solution	2,94
pH 1% solution	6,23

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EDDHA Chelates

Our EDDHA Chelates are available with ortho-ortho range from 1,2 till 4,8.

Anafer 6
Fe-EDDHA 6%

EDDHA range

- ***Anafer Green (Fe-EDDHA 6%)***
- ***Anafer Red (Fe-EDDHA 6%)***

Fe-EDDHA Benefits

- ***Specially formulated to prevent and correct iron chlorosis in all kinds of crops.***

Anafer Green & Anafer Red

Fe-EDDHA 6%

Dose & instruction of use

Culture	Method	Dose in kg/ha
Fruit trees	Fertigation	10 - 40
	Soil application	10 - 40
Grapevine	Fertigation	10 - 30
	Soil application	20 - 60
Soft fruit and vegetables	Fertigation	10 - 40
	Soil application	10 - 40
Ornamentals	Fertigation	10 - 40
	Soil application	10 - 40

Dosage and application stages are subject to soil and climatic conditions, possible use of manure, influence of previous crops and other specific conditions. Exact dosages and application stages can only be given after an objective diagnostic procedure of soil and plant analyses.

Chemical composition

Iron (Fe) chelated with EDDHA	6,0%

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DTPA Chelates

DTPA range

- ***Anafer 11 (Fe-DTPA 11%)***

Anafer 11
Fe-DTPA 11%

Dose & instruction of use

Culture	Method	Dose in kg/ha
Fruit trees	Fertigation	5-20
	Soil application	5-20
Grapevine	Fertigation	4-15
	Soil application	10-20
Soft fruit and vegetables	Fertigation	4-20
	Soil application	4-20
Ornamentals	Fertigation	4-20
	Soil application	4-20

Dosage and application stages are subject to soil and climatic conditions, possible use of manure, influence of previous crops and other specific conditions. Exact dosages and application stages can only be given after an objective diagnostic procedure of soil and plant analyses.

Chemical composition

Iron (Fe) chelated with DTPA	11,0%

Anafer 11

Fe-DTPA 11%

TRACE ELEMENTS

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Not chelated trace elements

These trace elements are bound as chemical salts. As a result, they contain very high concentrations of the relevant trace elements. However, these salt structures are more susceptible to chemical influences and are only stable in a limited pH range.

Packing

Available in 1kg cups.
Available in 10 kg buckets.
Available in 25 kg bags (1pallet = 48 x 25 kg = 1200 kg).
Available in Big Bags.
Available in 50 x 19 gr boxes (Copper sulfate)
Availablr in 50 x 12 gr boxes (Sodium molybdate)

Manganese sulfate

$MnSO_4.H_2O$

- *Highly dosed source of manganese*
- *Fully water-soluble*
- *Crystalline*

Chemical composition	
Manganese (Mn)	318 g/kg

Copper sulfate

$CuSO_4.5H_2O$

- *High dosed source of copper*
- *Fully water-soluble*
- *Crystalline*
- *Can be used in fertigation, as foliar fertilizer or as an element in NPKs*

Chemical composition	
Copper (Cu)	250 g/kg

Zinc sulfate

$ZnSO_4.H_2O$

- *High dosed source of zinc*
- *Fully water-soluble*
- *Powder*
- *Can be used in fertigation, as foliar fertilizer or as an element in NPKs*

Chemical composition	
Zinc (Zn)	350 g/kg

Sodium molybdate

$NaMo$ 39,5%

- *Highly dosed source of molybdenum*
- *Fully water-soluble*
- *Crystalline*

Chemical composition	
Molybdenum (Mo)	> 39 %

Borax

$Na_2B_4O_7$ 11%

- *Fully water-soluble*
- *Microprills*

Chemical composition	
Boron (B)	11 %

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BIOSTIMULANTS

Biostimulants

Current horticulture demans are constantly increasing: higher yields, higher resistence, better quality.

These improvements may come from better crop varieties and practices. However, biostimulants have a large rol to play there as well.

Our products may help you with the improvements you are looking for.

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Algafit

Algafit is a new plant enhancer in the resistance to soil borne pathogens.

Algafit Enhances the plants resitance to fungal attacks in a dual manner. It enhances the root growth and strenght, hence reducing their susceptibillty to infections.

Furthermore, *Algafit* initiatest he activation of the plants defence system, which renders the pathogen unable to cause further infections.

Algafit benefits

- ***Enhanced plant resistance against Phytophtora, Phytium and Botrytis.***
- ***Efficient foliar fertilizer.***
- ***Enhances root growth.***
- ***Enhances plant viability.***
- ***Easy to use.***
- ***Biodegradable.***

Packing

Available in 5l drums.
Available in 20l drums.
Available in 220l drums.

Dose & instruction of use

Method	Application date	Dosage in l/ha
Fertigation	4 treatments from planting until the coloring of the first fruits.	8-10l/ha
Foliar	3-4 treatments from flower formation to fruit formation	3l/ha
	In fall	12-15l/ha (minimum 1000l water)

Chemical composition

Total nitrogen (N)	3,0%
Ureic nitrogen (NH_2)	3,0%
Potassium oxide (K_2O)	18,0%

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Silacon

Silacon contributes to the production of strong and healthy crops, with an increased resistance against biotic and abiotic stresses.

The nutrients provided by *Silacon* are incorporated in the plants outer cell wall, which prevents penetration by insects. Furthermore, it makes the plant become less susceptible to enzymatic degradation due to fungal attacks.

Silacon can be integrated in the fertigation system or used as a foliar fertilizer.

Silacon benefits

- ***Enhances resistance and vitality.***
- ***Helps to form a physical barrier against biotical and abiotical stresses.***
- ***Can be integrated in the fertigation system or used as a foliar fertilizer.***
- ***Fast and straightforward application in different crops.***

Packing

Available in 5l drums.
Available in 20l drums.
Available in 200l barrels.
Available in 1000l IBC.

Chemical composition

Total nitrogen (N)	2,3%
Ureic nitrogen (NH_2)	2,3%
Phosphorus pentoxide (P_2O_5)	3,0%
Potassium oxide (K_2O)	11,0%

Physical properties

Density	1,28 g/L
pH	~12

Dose & instruction of use in fertigation

At the start of fertigation cycle: pulse 250 ml of the fertilizer/1000L directly in your fertigation system.

Lower the dose to 160 ml /1000L toward the end of the fertigation cycle to prevent the creation of a wax layer on your crops.

Do not mix with any other fertilizer, Silacon is incompatible with most fertilizers

Dose & instruction of use in foliar

Crop	Number of sprays	Time of application	Single dose (L Silacon/ha)
Cereals	Autumn 1	3-6 leaves	0,5
	Spring 3	1. tillering - 2. stem elongation - 3. after flowering	0,5
Pear / Apples	7	1: Green bud - 2: Pink/white bud - 3: end of flowering - 4 to 6: during fruit development, every 14-21 days	0,5
Peper / Cucumber	4	1: before flowering - 2: during flowering - 3 and 4:growth of fruit primordia, every 10-14 days	0,5
Lettuce	4	Every 2 weeks	0,5

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Seaprills

Seaprills are a completely natural product, derived from brown seaweed harvested in the Chinese sea.

The natural nutrients improve yield, quality and vigor of various plants.

Seaprills are very soluble in water and can be used as a foliar spray, in fertigation or as an ingredient in NPK's.

Seaprills benefits

- ***Seaprills contain plant hormones that stimulate plant growth (stem-elongation, making the food sources available for the plant. , improve root growth ..).***
- ***Seaprills contain alginic acid, a polysaccharide that forms polymers with metals. These salts can absorb and fixate massive amounts of moisture. They support a good crumbling texture of the soil.***

Packing

Available in 25kg paper bags.
Available in 1kg aluminium bags.

Dose & instruction of use		
Crop in kg/ha	**Application date**	**Total dosage**
Vegetables and green-house crops	At the start of fertigation and when the days are shortening	2kg/ha/week
Grass	At sowing and a few weeks before harvesting	2kg/200l/ha/ week

Chemical composition	
Potassium oxide (K_2O)	24 %
Organic matter	30 %

Physical properties	
pH (1% H_2O solution)	6 - 7
Solubility (20°C in H_2O)	>99%

Sealiqweed

Seaprills is also available as a liquid fertilizer.

Packing

Available in 1L bottles.
Available in 5L drums.

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ORGANIC & ORGANO-MINERAL FERTILIZERS

Organic & Organo-mineral Fertilizers

Organic fertilizers have several benefits in open field application. They provide a slow nutrient release for the plant, promoting a stable growth. They also improve soil properties such as structure, CEC and waterholding capacity. In combination with mineral fertilizer components they can provide a complete nutrition for your crop.

Our organic and organo-mineral fertilizers are available in packing of:

- 25 kg bags in PE or LWPP quality on 1200kg pallets.

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Biomagic

Biomagic is a granulated organic NPK fertilizer, obtained from fermented plant materials and poultry manure. These fertilizers not only provide the necessary N-P-K, but also provide humus to improve poor soils and thus restore their biodiversity.

The 4 mm granules are well fit for mechanical spreading and form an Ideal product for a well-balanced agricultural system. *Biomagic* contains a high concentration of organic elements, are easy to absorb by the soil and stimulate the root formation. Furthermore the organic material will be transformed to humus in the soil which enriches the nutritional state of poor soils, its structure and water retention and develops its biodiversity.

The high concentration of organic compounds present in *Biomagic*, combined with the stimulating effects of seaweed (Sargassum laminariales) ensure a well balanced growth of your crops.

Biomagic is composed of natural animal based ingredients, Is free from chemical additives and pure in composition. Furthermore the product is in conformity with the strict Belgian standards in this field.

Biomagic benefits

- ***No leaching, hence environmentally friendly.***
- ***They provide a gradual release of nutrients, which results in a long-lasting effect.***
- ***No scorching.***
- ***Administration of Biomagic ensures a balanced plant growth, without stress.***
- ***Organic particles are converted into humus and as such improve and preserve the soil structure and stimulates soil life.***
- ***No additives, no harmful effects on humans, animals or the environment.***

Dose & instruction of use

1 à 2 ton/ha, the frequency of application is dependent on the type of soil and culture.

Store the product in a dry environment. Further preservation conditi-ons are not required. No precaution measures are needed.

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Phoenix

Phoenix is an organo-mineral fertilizer that combines the advantages of organic and mineral fertilizers in one product.

The product is based on ashes high in Silicon content, in combination with other organic and mineral sources. This makes that the nutrients become gradually available for absorption by the roots of the crop.

Phoenix acts thus as an ideal fertilizer for eg. the cultivation of greenhouse lettuce, where it ensures good quality crops which are generating high crop yields

Phoenix benefits

- ***Contains a balanced amount of Nitrogen, Phosphorous, Potassium and Magnesium and TE.***
- ***Combined action of fast-acting and organically bound Nitrogen.***
- ***Higher yields compared to similar organic fertilizers.***
- ***Great price/quality ratio.***

Chemical composition	
Total nitrogen (N)	7,0%
Nitric nitrogen (NO_3)	2,7%
Ammoniacal nitrogen (NH_4)	1,0%
Ureic nitrogen (NH_2)	0,3%
Organic nitrogen	3,0%
Phosphorus pentoxide (P_2O_5)	6,0%
Potassium oxide (K_2O)	14,0%
Magnesium oxide (MgO)	4,0%
Calcium oxide (CaO)	4,3%
Dry matter	88% min
Organic matter	39% min

Recommendations for use

Between 0,8 and 1,6 tonnes/ha depending on soil fertility and culture.

Physical properties	
Density	725-800 kg/m^3
pH (10% solution)	6-7

The FertiLikers
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