

The fertility power

PRODUCT PORTFOLIO

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Our presence in the market is the result of high quality, deep knowledge and long experience in crop nutrition.

With unique expertise, we develop complete nutrition proposals that meet the demands of modern agriculture. Focused on quality, we exploit research and high-level training of our staff and offer a full range of innovative nutritional products that cover the entire range and demands of modern agriculture:

simple Nitrogen fertilizers Nitrocan®, Nutrammon®, Novacan® stabil Nitrogen fertilizers with Sulfur Nitrocan[®] Sul, Fertammon[®] high-quality chemical compound NP fertilizers Nutriphos® high-quality chemical compound NPK-MOP fertilizers Nutrifert® high-quality chemical compound NPK-SOP multinutrient fertilizers Complefert® advanced technology fertilizers with stabilized Nitrogen NutrActive® innovative fertilizers with nano polymers technology Ω mega[®] fert

The multiple advantages and excellent quality features of our products create strong brands, recognized among the top in the world and exported to all European and international markets.

Constantly committed to the needs of agriculture and its people, we keep abreast of the developments in the agricultural sector and respond to the changes and challenges of our time by proposing new cultivation techniques and high-quality products that maximize the efficiency of fertilization and contribute to increasing production.

Our aim is to be considered, in the consciousness of our clients and suppliers, as their most reliable and long-term partner and to offer customized solutions that meet their needs.



The fertility power

Product Portfolio

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Simple Nitrogen fertilizers

Nitrogen, Water, Carbon, Oxygen, and Hydrogen are fundamental nutrients for life in general and every living being in nature. In the case of plants, Nitrogen is more involved than any other nutrient in the formation of the plant body and the vital functions of development and production. As a component of chlorophyll, it is involved in the process of photosynthesis and the production of carbohydrates, which form the base of the food chain and the only reason why humans developed agriculture.

As a structural element of amino acids, proteins and nucleic acids, Nitrogen has a pivotal role in energy conversions, plant reproduction throughout time, and in the growth and yield of crops.

Lack of Nitrogen leads to reduced fertility of soil, stunted growth, premature decay of plants, reduced production, and deterioration of quality.

Its overabundance favors the production of plants which are vulnerable to diseases and environmental conditions, delays florescence, reduces fruit set, delays maturity, and harms production.

Sufficiency and rational handling of Nitrogen are the most important factors for the health and productivity of crops in contemporary agriculture.

Nutrammon



Properties

Nutrammon[®] are high-quality Nitrogen fertilizers, which have been developed so as to ensure this requisite as much as possible. The two absorbable by plants forms of Ammoniacal NH4 and Nitric NO₃ Nitrogen are combined in their granule in absolute purity and in a balanced ratio (50: 50).

Fast absorption of Nitric covers the immediate demands of crops, while the Ammoniacal fraction works as a "reserve", ensuring their medium-term supply. Nitrogen is absorbed in an easy and immediate way, without the interpolation of any external factors between plant and fertilizer, as is the case with Urea and Ammonium Sulphate.

Their chemical composition enhances the intake of other elements as well (K, Ca, Mg), promotes florescence and fruit setting, and significantly contributes to a production increase. They are the most reliable source of an immediate Nitrogen supply to plants in both low and high temperatures, providing the producer with the opportunity to have a flexible fertilizing schedule. Nutrammon® have a negligible effect on the acidity of the soil, and they preserve its physical and chemical properties, compared to other Nitrogen fertilizers.

Crops which are fertilized with **Nutrammon**[®] exhibit a healthy growth and high yield, require less water, and result in products rich in proteins and carbohydrates, improving the quality features of production.



Advantages

- Balanced ratio (50:50) of fast Nitrate (NO3) and extend Ammoniacal (NH4) absorbable Nitrogen.
- Nitrogen is contained in its entirety in a form that is immediately absorbable by the plants.
- Congruent nutrition, which covers the immediate and medium-term needs of the plants.
- summer.
- the toxic effects of chlorine (Cl).
- Affect the acidity of the soil less than other fertilizers.
- content of the products.





The fertility power

Simple Nitrogen fertilizers



Properties



The available Nitric Nitrogen is immediately absorbed by the roots, covering the current needs of the crops, while the Ammoniacal Nitrogen is absorbed gradually, offering sufficient nutrition to the crops during the following stages of development.

The Calcium they contain, reacts with clay particles and fuses them with each other, forming larger aggregates which act as a "soil framework" and stabilize its the structure and plasticity. Due to this ability, promotes the physical and chemical properties of the soil, enhances the ventilation and permeability of water and ensures the robust and healthy growth of the crops.

An additional supply of Boron and Magnesium to crops, especially in arboriculture and horticulture, prevents any deficiencies of these elements, and stimulates the production and circulation of carbohydrates, significantly contributing to the development of vegetation and fruit setting.

The excellent granulometry and minimal moisture of the soil required to break down the nutrients make their use possible in xerothermic areas with low rainfall and in soils with low water retention.

The immediate and prolonged action of Nitrocan®, as well as their particular technical characteristics, increase the efficiency of fertilizing and make them suitable for covering the needs of all crops in all types of soil.

Nitrocan® 26-0-0 / 27-0-0 type is intended for large crops, while the Nitrocan® special 27-0-0 +5MgO +0,2B has been developed to cover ideally the specific demands of arboriculture and horticulture.





Advantages

- Balanced ratio (50:50) of fast Nitrate (NO3) and extend Ammoniacal (NH4) absorbable Nitrogen.
- Immediate and medium-term nutrition, adjusted to the needs of the plants.
- Year-round reliable supply to crops. Flexible fertilizing schedule.
- Protect Nitrogen in the soil and minimize its losses due to leaching and vaporization.
- Capacity to utilize the moisture in the soil, which allows for their use in all weather conditions.
- Calcium supply to the soil, improves the stability and fertility.
- Robust growth of the root system and improved water and nutrient uptake.
- Neutral reaction in the soil. Suitable for all soil types.
- Additional supply of Magnesium and Boron to crops (Nitrocan[®] special).
- Excellent granulometry, which guarantees a wide distribution and a uniform dispersion of Nitrogen to the soil.

Nitročan special 3-0	Total Nitrogen (N)	Ammoniacal Nitrogen (NH4)	Nitric Nitrogen (NO3)	Magnesium (MgO)	Boron (B)
Nitrocan [®] 26-0-0	26%	13%	13%	-	-
Nitrocan [®] 27-0-0	27%	13,5%	13,5%	-	-
Nitrocan [®] special 27-0-0 +5MgO +0,2B	27%	13,5%	13,5%	5%	0,2%













Simple Nitrogen fertilizers





Properties

Novacan® stabil is a new generation Nitrogen chemical fertilizer and unique product in its global fertilizers market, which combines Calcium Ammonium Nitrate with the technology of "stabilized" Ammoniacal Nitrogen.

The most innovative technology is used in its production, ensuring the immediately as well as the extended nutrition of the crop with Nitrogen for the duration of the farming period. The presence of the nitrification inhibitor (DCD) in each granule, protects Nitrogen from oxidation, minimize losses due to leaching and vaporization and extends its presence in the soil for a long period.

The balance ratio (50:50) between stabilized Ammoniacal and Nitrate Nitrogen ensures the adequate nutrition of the plants, evenly and according to their requirements, with both Nitrogen forms, promote vigorous growth, boost flowering and enhances fruit setting.

- Nitric Nitrogen (NO3) is promptly absorbed by the roots and provides energy for the rapid growth of the plants in the early vegetative stages.
- Stabilized Ammoniacal Nitrogen (NH4) creates strong bonds with the soil, remains available to the plants for a long period and its cover the needs at the later crucial stages of fruit setting and ripening.

This way, **Novacan[®] stabil** has the unique ability to function in the early-growth stages as Ammonium Nitrate fertilizer, while in the later period, of fruit development, to behave as slow realize fertilizer, providing Nitrogen until the end stages of the crop.

Rich in Calcium, protect the soil from the acidity, promotes its aggregation, ventilation and permeability of water and ensures the healthy growth of plants. In young plants, it contributes to the formation of a rich root system and healthy foliage. During flowering, it boosts fertility and increases the number of formed fruits. After fruit setting, it reduces shedding and plays an important role in the normal development of the fruits, while in later stages it improves their quality characteristics and storability.

The excellent granulometry, the high availability of their Nitrogen forms and the minimal moisture required to dissolves, make Novacan stabil the best choice for the top dressing fertilization of all crops, in all types of soils and in all climatic zones.





Advantages

- Balanced ratio (50:50) of rapidly absorbable Nitrate (NO3) Nitrogen and slow realize "stabilized" Ammoniacal (NH4).
- Integration of nitrification inhibitor in the granule during fertilizer production process, for guaranteed Nitrogen stabilization.
- Continuous Nitrate and extended stabilized Ammoniacal Nitrogen supply of the crop for long period.
- Increase of yield due to the regular nutrition of the plants with both forms of Nitrogen.
- Protect Nitrogen in the soil and minimize its losses due to leaching and vaporization.
- Adapt Nitrogen supply to the plants according to their specific requirements at the time.
- Flexibility regarding the time of fertilizing and guaranteed Nitrogen supply in all weather conditions.
- Calcium supply to the soil, improves the stability and fertility.
- Robust growth of the root system and improved water and nutrient uptake.
- Neutral reaction in the soil. Suitable for all soil types.







Ammoniac Nitrogen (NH4)	Nitric Nitrogen (NO3)	Cyanamide Nitrogen	Magnesium (MgO)	Boron (B)
13,5%	13 ,29 %	0,21%	-	-
13,5%	13,29%	0,2 1%	5%	0,2%





Nitrocan[®] sul Fertamm an[®]



The fertility power

Nitrogen fertilizers with Sulfur

Sulfur is a necessary nutrient for a full nutrition of crops.

It is an important element of plants, is involved in most metabolic processes, and significantly affects germination and production.

Its activity inside the plant is closely linked to Nitrogen.

This is why lack of one of these two elements reduces the utilization of Nitrogen by the plants, suppresses protein synthesis, and halts growth. The main source of Sulfur supply to crops are the quantities returned from the atmosphere through rainfall.

Sulfur (S) was not given much importance in the past, which along with continuously diminishing concentration in the atmosphere has led to its supply being nearly exhausted, which has negatively affected soil fertility and the productivity of crops.

Contemporary agricultural research and practice has highlighted its significant contribution to the full nutrition of crops, and the importance of targeted fertilizing of crops with Sulfur as a requirement for increased yield and the production of quality products.





Properties

Nitrocan[®]Sul is a high-tech Nitrogen fertilizer which have been developed to supplies plants with available Nitrogen, Calcium and Sulphur.

It combines in a balanced way (50:50) the fast action of Nitric Nitrogen and the prolonged availability of Ammoniacal Nitrogen, and it covers excellently both the immediate and the medium-term needs of the crops.

The available Nitric Nitrogen is immediately absorbed by the roots, covering the current needs of the crops, while the Ammoniacal Nitrogen is absorbed gradually, offering sufficient nutrition to the crops during the following stages of development.

The Calcium of **Nitrocan® Sul** promotes the physical and chemical properties of the soil, enhances the ventilation and permeability of water and ensures the robust and healthy crop growth. It is contained in the form of Calcium Sulphate which has a higher solubility than Calcium Carbonate (lime), thus making it the most suitable source of Calcium for the plants.

An additional supply of Boron and Magnesium to crops, especially in arboriculture and horticulture, prevents any deficiencies of these elements, and stimulates the production and circulation of carbohydrates, significantly contributing to the development of vegetation and fruit setting.

The Sulphur contributes the absorption of Nitrogen, improves the intake of Phosphorus and Trace Elements, is essential element for an integral nutrition and participates in most of the metabolic processes of the plant growth. While elemental and organic Sulphur would have to undergo a microbial conversion in order to be absorbable by plants, the Sulphur of **Nitrocan® Sul** contained in the form of sulphate ion (SO4²⁻) which can be immediately used by the crops.

The specialized ratio of Nitrogen, Calcium and Sulphur in each granule, makes **Nitrocan[®]Sul** ideal for the top dressing fertilization of all crops in all soil types.







Nitrogen fertilizers with Sulfur

Advantages

- Supply the plants with adequate quantity of Nitrogen, Calcium and Sulphur.
- Balanced ratio (50:50) of fast Nitrate (NO3) and extend Ammoniacal (NH4) absorbable Nitrogen.
- Additional enrichment with Sulphur, promote the utilization of Nitrogen as well as the production of proteins and carbohydrates.
- Contained Sulphur mobilize the soil's Phosphorus and Trace Elements.
- Calcium supply to the soil, improves the stability and fertility.
- Calcium in high solubility Calcium Sulphate form. Higher Calcium availability for plants.
- Neutral reaction in the soil. Suitable for all soil types.
- Low demand of water to dissolve, make it ideal for all climate zone
- Excellent granulometry, which guarantees a wide distribution and a uniform dispersion of fertilizer to the soil.

	Total Nitrogen (N)	Ammoniacal Nitrogen (NH4)	Nitric Nitrogen (NO3)	Magnesium (MgO)	Sulphur (SO ₃)	Boron (B)
Nitrocan [®] Sul 27-0-0 (+10)	27%	13,5%	13,5%	-	10%	-
Nitrocan [®] Sul special 27-0-0 (+10) +5MgO +0,2B	27%	13,5%	13,5%	5%	10%	0,2%





Fertammen[®]

Properties

Fertammon® are high-quality fertilizers which have been developed in order to supply the crops efficiently with Nitrogen and Sulfur.

They combine the absorbable by plants forms of Nitrogen and Sulfur in an ideal ratio in their granule. Nitric Nitrogen is immediately absorbed by the roots, while Ammoniacal Nitrogen is retained in the soil and sufficiently supplies crops for a prolonged period of time, covering their needs during the later stages of their cycle.

The Sulfur contained is absorbed by plants and it contributes to the development of the root system, as well as increases the efficiency of Nitrogen when it enters the metabolism.

In alkaline soils which exhibit problems of low availability of Phosphorus and Trace Elements, the presence of Sulfur increases the acidity in the micro-environment of the granules, which leads to these elements breaking down and becoming more available to crops.

soil.

Fertammon[®] 26 26-0-0 (+29) covers ideally the needs of large crops, while Fertammon[®] special 25-0-0 (29) +0,5Zn +0,5FeSO4 has been specifically adapted for the demands of arboriculture, viticulture and horticulture.







Excellent granulometry guarantees the uniform dispersion of nutrients in the field, while its special formula ensures a sufficient supply of Nitrogen and Sulfur for all crops and all types of





Nitrogen fertilizers with Sulfur

Fertammen[®]



Advantages

• Excellent Nitrogen and Sulphur supply to crops, for increased yields and better quality.

- Specialized ratio of Nitric and Ammoniacal Nitrogen for maximum absorption by the crops.
- Better utilization of Nitrogen due to its combined action with Sulphur.
- The development of a rich root system and the strong establishment of the plants during their early stages of development.
- Increased absorption of Phosphorus and Trace Elements in alkaline soils.
- Additional supply of Iron and Zinc to crops.

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- Suitable for all crops and all soil types.
- Excellent granulometry, which ensures a uniform dispersion of nutrients in the field.

Fertamm-n 26 3rde-antri international and international and intern	Total Nitrogen (N)	Ammoniacal Nitrogen (NH4)	Nitric Nitrogen (NO3)	Sulphur (SO3)	Zinc (Zn)	Iron Sulfate (FeSO4)
Fertammon [®] special						
25-0-0 (+28) +0,5Zn +0,5FeSO4	25%	18,1%	6,9%	28%	0,5%	0,5%
Fertammon [®] 26						
26-0-0 (+28)	26%	18,7%	7,3%	28%	-	-













Chemical compound NP fertilizers

Nitrogen and Phosphorus are fundamental elements when it comes to handling soil and crops. Their particular behavior affects the fertility of the soil and the development of crops more than any other nutrient. Nitrogen compounds move fast inside the soil, so there are losses and they often are a limiting factor regarding the sufficient nutrition of plants. On the other hand, the strong retention and low solubility of Phosphorus render it the hardest element to move in the soil and hinder its intake by plants. A smooth supply of Nitrogen and Phosphorus to crops requires technical expertise in the chemical industry, so that the produced fertilizers provide nutrients in compatible and absorbable forms to plants.

All the particular characteristics of Nitrogen and Phosphorus have been taken into consideration in the design of Nutriphos® NP, and the products developed ensure the maximum availability of these elements in the soil. Their specialized process of production achieves very high solubility (90%) of Phosphorus and increases its absorption by the crops. Nitrogen is contained in its entirety, or for the most part, in Ammoniacal form, prolonging nutrition, while the additional enrichment in Sulfur improves its utilization by the plants and enhances the efficiency of fertilizing.

Nutriphos® NP are an ideal source of Phosphorus for plants in all types of soil. **Especially in the neutral and alkaline** soils, they have a significant advantage to the Nitrophosphate fertilizers which do not meet the demands of the neutral and alkaline soils.

Nutriphos[®]NP

Properties

Nutriphos® NP are high-quality compound multinutrient fertilizers.

They uniquely combine the prolonged action of Ammoniacal Nitrogen with the most absorbable form of Phosphorus, increasing the efficiency of fertilizing. High solubility and additional Sulfur content improve the utilization of nutrients and contribute to the full nutrition of crops. Excellent granulometry, specialized coating, and integrated technical expertise guarantee that no problems arise in storage, and a uniform dispersion during application.

Nutriphos® NP stimulate the formation of a rich root system and ensure a better establishment and development of crops in all types of soil.

Mode of action

Nitrogen in Nutriphos[®] NP is contained in its entirety or for the most part in Ammoniacal form, while Phosphorus in the most water-soluble and absorbable form for plants, that of Monocalcium orthophosphate.

Once the granule of the fertilizer comes in contact with the soil, the Phosphorus contained absorbs water and it is hydrolyzed, forming an acid solution of three compounds. Two of these compounds enter the soil solution and immediately supply the plants. The third Phosphorus compound functions as a "reserve", and it covers the demands of the crop during the later stages of their development. The presence of Ammoniacal Nitrogen and Sulfur creates synergy between the elements, reduces immobility, and increases the efficiency of fertilizing.





Advantages

- High-quality fertilizers from prime raw materials.
- High Ammoniacal Nitrogen content, which makes them unique regarding the basic fertilizing of crops.
- High solubility of Phosphorus, up to 90%, to better supply crops in all types of soil.
- Additional enrichment in Sulfur for a better utilization of Nitrogen and Trace Elements.
- Uniform dispersion of nutrients, due to the high solubility of granules.
- Excellent granulation, with solid and spherical granules, which makes the flow easier and does not generate dust.
- Wide application and uniform dispersion, leaving no gaps in the field.

-	Nutriphos classic biol 6 + 2000							
		Total Nitrogen (N)	Ammoniacal Nitrogen (NH4)	Nitric Nitrogen (NO3)	Phosphorus (P2O5)	Calcium (CaO)	Magnesium (MgO)	Sulphur (SO3)
	Nutriphos [®] dual-P 10-20-0 (+20)	10%	10%	-	20%	-	-	20%
	Nutriphos [®] grand-P 10-25-0 (+20)	10%	10%	-	25%	-	-	20%
	Nutriphos [®] oxifertil 12-12-0 (+28)	12%	12%	-	12%	-	-	28%
	Nutriphos [®] oxisoil 15-13-0 (+35) +10CaO +2MgO	15%	15%	-	13%	10%	2%	35%
	Nutriphos [®] classic 16-20-0 (+32)	16%	16%	-	20%	-	-	32%
	Nutriphos [®] 20-10 20-10-0 (+20)	20%	14,8%	5,2%	10%	-	-	20%
	Nutriphos [®] duplo 20-20-0 (+22)	20%	17,3%	2,7%	20%	-	-	22%
	Nutriphos [®] 22-11 22-11-0 (+22)	22%	16,5%	5,5%	11%	-	-	22%





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Nutrifert[®]NPK



The fertility power

Chemical Compound NPK MOP fertilizers

The modern agriculture orientation towards high yield, high quality products and environmental protection, is inextricably linked to the soil quality and the practices of its maintenance.

The adaptation of fertilization to the diverse nutritious requirements of plants constitutes the «key» for the maintenance of soil fertility and the high productivity of agricultural exploitations.

Nutrifert[®] NPK is a complete line of fertilizers, which combine high quality and a long experience in the sector of culture nutrition.

Each granule contains nutrients in forms completely absorbable and in proportions precisely adapted to the culture's requirements. Most types, apart from the main macronutrients (N-P-K), contain also some secondary ones, as well as micronutrients (S, Mg, B, Zn) so as to ensure complete plant nutrition.

Designed based on the needs of modern agriculture, Nutrifert NPK offer the potential of adapting the fertilization to specific territorial and farming needs, and achieve ideal nutritious sufficiency

and culture productivity





Properties

Nutrifert® NPK are high quality compound multinutrient fertilizers. Their elemental composition is specifically adapted to the requirements of cultures, thereby ensuring the sufficient supply of plants with the essential nutrients.

The excellent granulometry and special granule coating facilitate the handling and guarantee uniform dissemination during application. The high solubility, the increased Sulphur content in completely absorbable form and the special proportion in which the nutrients are combined, maximize the fertilization effectiveness and promote culture productivity.

Mode of action

Each granule of **Nutrifert**[®] **NPK** combines the rapid action of Nitric with the extended action of Ammoniacal Nitrogen, in a balanced way. Phosphorus is contained in the most absorbable form, while Potassium is completely water soluble and immediately available to the plants. Moreover, the formula is enriched by a set of secondary elements, depending on the type of fertilizer. When the granule reaches the ground, it absorbs the soil's humidity and diffuses the nutrients uniformly. As a result, a homogeneous nutritious region is created around the granule that functions as a "nutrient deposit" for the plants. From this site, the nutrients progressively enter the soil solution, get absorbed by the plants and trigger the growth of root and shoot system.

The completely absorbable form and the special proportion, in which the essential and secondary nutrients are combined, create synergistic interactions between them, increase their availability and achieve optimum absorption by the culture.

Nutrifert[®] **NPK** fertilizers ensure complete nutrition and high yield of cultures fertilized with them.





Chemical ompound NPK MOP fertilizers





Advantages

- Specialized composition, adapted to the nutritional requirements of crops.
- All the nutrients are contained in the granule in a form absorbable by the plants.
- Direct supply of the nutrients to the crop. Minimization of losses.
- High Ammoniacal Nitrogen content, which makes them unique regarding the basic fertilization of crops.
- High solubility of Phosphorus, up to 90%, to supply crops in all types of soil.
- Additional enrichment with Sulphur for a better utilization of Nitrogen and Trace Elements.
- Excellent granulation with compact granules that do not create dust.
- Large distribution of application and uniform dispersion, leaving no gaps in the field.

tarter I Nutrifiert									
Ara-Jaka and an an an an an and an	Total Nitrogen (N)	Ammoniacal Nitrogen (NH4)	Nitric Nitrogen (NO3)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (MgO)	Sulphur (SO3)	Boron (B)	Zinc (Zn)
Nutrifert [®] kali-phos 9-22-22 (+10)	9%	9%	-	22%	22%	-	10%	-	-
Nutrifert® basic 11-15-15 (+20)	11%	11%	-	15%	15%	-	20%	-	-
Nutrifert® base 11-15-15 (+32)	11%	11%	-	15%	15%	-	32%	-	-
Organofert [®] 12-12-12 (+35) +10% O.M.	12%	12%	-	12%	12%	-	35%	-	-
Nutrifert [®] poly-bor 12-8-18 (+12) +2MgO +0,3B	12%	9,4 %	2,6%	8%	18%	2%	12%	0,3%	-
Nutrifert [®] starter 18-9-6 (+22) +0,2Zn	18%	14%	4%	9%	6%	-	22%	-	0,2%
Nutrifert® olistar 19-6-15 (+7) +2MgO +0,5B	1 9 %	11,5%	7,5%	6%	15%	2%	7%	0,5%	-
Nutrifert [®] standard 20-10-10 (+15)	20%	14%	6%	10%	10%	-	15%	-	-
Nutrifert [®] super 21-8-8 (+16) +2MgO +TE	21%	14,3%	6,7%	8%	8%	2%	16%	0,1%	0,01%
Nutrifert [®] N-max 26-7-5 (+6) +0,5Zn	26%	14,9%	11,1%	7%	5%	-	6%	-	0,5%







Chemical compound NPK SOP multinutrient fertilizers

Complefert®



Chemical compound NPK SOP multinutrient fertilizers

The yield increases and the production of high quality agricultural products are closely linked to the utilization of agricultural research in the sector of culture nutrition. The creation of innovative products, capable of providing targeted nutrition and satisfying the special nutritious requirements of all stages of plant growth, decisively influences the fertilization efficiency and the culture productivity.

Complefert is a complete line of fertilizers that combine high quality and long experience in the sector of culture fertilization. They have been developed in order to supply the plants with all the essential macronutrients N, P, K, S, Mg, as well as the most important trace elements B, Zn that are required for complete culture nutrition.

The special production process combines the nutrients in a precisely adapted proportion and in completely absorbable form, within each granule of Complefert. As a result, the nutrients act synergistically, their absorption from the crop is increased and the fertilization effectiveness is maximized.

Complefert[®]



Properties

Complefert[®] are high quality compound fertilizers, that contain all of the nutrients required for complete nutrition and robust culture growth. Their elemental composition is adapted to the special requirements of arboriculture, viticulture, horticulture and modern arable cultures. The completely absorbable form and the special nutrient proportion, ensure optimum supply during all stages of plant growth.

The excellent granulometry, in combination with high solubility and increased Sulphur content, maximize the effectiveness of fertilization and the utilization of nutrients by the crop.

Complefert[®] provide reliable and complete nutrition, increase the yield and promote the qualitative characteristics of crops.

Mode of action

Once the granule reaches the ground, it absorbs the soil's humidity and diffuses the nutrients uniformly. As a result, a homogeneous nutritious region is created around the granule that functions as a "nutrient deposit" for the plants. From this site, the nutrients progressively enter the soil solution, get absorbed by the plants and trigger the growth of root and shoot systems.

The completely absorbable form and the special proportion, in which the essential and secondary nutrients are combined, create synergistic interactions between them, increase their availability and achieve optimum absorption by the plants.

Complefert® fertilizers ensure complete nutrition and high yield of crops fertilized with them.



Complefert[®]

Advantages

- Complete in essential and secondary nutrients. They provide integral nutrition to crops.
- Fully absorbable forms and a specialized ratio of nutrients, adapted to the nutritional requirements of crops.
- Optimum utilization of the nutrients by the crop. Minimization of losses.
- High Ammoniacal Nitrogen content for an extended nutrition of the crop.
- Additional enrichment with Sulphur for a better utilization of Nitrogen and Trace Elements.
- Optimum granulation with compact granules that do not create dust. • Large distribution of application and uniform dispersion, leaving no gaps in the field.

	Climplefert'				Signal and service of the service o						
a s sur	Hand Hand Hand Hand Hand Hand Hand Hand	Total Nitrogen (N)	Ammoniacal Nitrogen (NH4)	Nitric Nitrogen (NO3)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (MgO)	Sulphur (SO3)	Boron (B)	Zinc (Zn)	Iron (Fe)
	Complefert [®] premium 8-12-18 (+30) +2MgO +TE	8%	8%	-	12%	18%	2%	30%	0,02%	0,01%	-
	Complefert [®] special 12-8-17 (+27) +2MgO +TE	12%	9,4%	2,6%	8%	17%	2%	27%	0,02%	0,01%	-
	Complefert [®] extra 12-10-20 (+28) +2MgO +TE	12%	9,7%	2,3%	10%	20%	2%	28%	0,02%	0,01%	-
	Complefert [®] bluestar 12-12-17 (+30) +2MgO +TE	12%	10,4%	1,6%	12%	17%	2%	30%	0,02%	0,01%	-
	Complefert [®] magni-plus 14-7-14 (+25) +4MgO +0,1Fe +0,1Zn	14%	10,8%	3,2%	7%	14%	4%	25%	-	0,1%	0,1%
_	Complefert [®] master 15-5-20 (+20) +2MgO +TE	15%	9,5%	5,5%	5%	20%	2%	20%	0,02%	0,01%	-
	Complefert® magni-bor 20-5-10 (+18) +2MgO +0,5B	20%	12,6%	7,4%	5%	10%	2%	18%	0,5%	-	-



• High solubility of Phosphorus, up to 90%, to supply crops in all types of soil.



Advanced technology chemical fertilizers with stabilized Nitrogen

NutrActive



The fertility power

Advanced technology chemical fertilizers with stabilized Nitrogen

The presence of both Nitrogen forms in the soil and the sufficient supply to the plants in a regular pattern corresponding to their needs, constitute the "key of success" for the yield increase and the production quality.

With "traditional" fertilizers, the adaptation of fertilization to the needs of the culture is not feasible. The Nitrogen supply deviates from the plants requirements and fertilization is accompanied by a large loss of fertilizer to the deeper soil layers and to the atmosphere.

NutrActive® new generation fertilizers, prevent fertilizer losses, "stabilize" Nitrogen in the soil and extend its availability to the culture for a long period of time.

Via the nitrification inhibitor DCD, they alter the Nitrification rate, regulate Nitrogen supply based on the culture requirements and ensure continuous supply to the plants during the entire farming period.

With NutrActive[®] fertilizers, the dynamic process between the fertilizer and the culture is restored. The fertilization is adapted to the specific requirements of the plants, its effectiveness is increased whilst completed nutrition and high culture productivity is achieved.







Properties

NutrActive[®] are new generation fertilizers, which have occurred after many years of research and experimentation in the sector of culture nutrition.

During their production process, the active factor 1-cyano-guanidine (DCD) that slows down the Nitrification process and extends Nitrogen presence in the soil for a long period of time, is incorporated in each granule. Besides long-duration Ammoniacal Nitrogen, they also contain 20-40% Nitric Nitrogen that satisfies the direct and short-term needs of the plants.

The excellent granulometry, high solubility, increased availability of nutrients and the high Sulphur (S) content, make NutrActive® the best choice for the rational management of fertilization and yield increase in modern agriculture.



Advanced technology chemical fertilizers with stabilized Nitrogen

NutrActive



Mode of action

Robust culture growth and high productivity requires regular supply of plants with both Nitrogen forms.

Upon fertilization with traditional fertilizers, the total of added Nitrogen is transformed to Nitrite and subsequently Nitrate salts very fast. Due to this transformation, the roots of the cultures that are fertilized with traditional fertilizers can only access Nitrogen in the form of Nitrate in the soil. The plants are forced to unilateral Nitrate nutrition, they are deprived from the metabolically essential Ammoniacal Nitrogen and undermine the quantity and the quality of products produced.

The **NutrActive**[®] fertilizers, via the nitrification inhibitor DCD, stabilize Ammoniac Nitrogen, they protect it from microbial oxidation, and extend its presence in the soil for 8 to 10 weeks.

By slowing down the transformation rate of Ammoniac Nitrogen to Nitrate, **NutrActive**[®] fertilizers ensure prolonged culture nutrition with both Nitrogen forms. At the same time, they regulate the Nitrogen supply based on the plant's needs, they minimize the losses that are due to leaching and vaporization and maximize fertilization effectiveness.

The long-term and balanced supply of the plants with both Nitrogen forms promotes root system growth, increases water and nutrient absorption and achieves robust culture growth and high productivity.

Advantages

- Integration of Nitrification inhibitor in the granule during fertilizer production process, for guaranteed Nitrogen stabilization
- Continuous and extended nutrition of the crop for over two months
- Increase of yield per hectare due to the regular nutrition of the plants with both forms of Nitrogen
- Controlled Nitrogen supply to the crop according to its specific requirements at the time
- Protection of the Nitrogen in the soil and minimization of the losses due to leaching and vaporization
- Robust growth of the root system and improved water and nutrient intake
- Increased Phosphorus and Trace element intake and energy saving by the plants
- Flexibility regarding the time of fertilizing and guaranteed Nitrogen supply in all weather conditions
- Labor and cost saving fertilizing due to decreased applications
- Environmental and health benefits due to reduced Nitrates

in the water and in the final products.



NutrActive
NutrActive

I NutrActive								-		-	
NurActive Sector Distributions Company Active Activ	Total Nitrogen (N)	Ammoniacal Nitrogen (NH4)	Nitric Nitrogen (NO3)	Nitrogen Cyanamide	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (MgO)	Sulphur (SO3)	Boron (B)	Zinc (Zn)	Iron (Fe)
NutrActive® 26N Boro-plus 26-0-0 (+27) +0,3B	26%	18,3%	7,4%	0,3%	-	-	-	27%	0,3%	-	-
NutrActive [®] 27N 27-0-0 (+28)	27%	19 %	7,7%	0,3%	-	-	-	28%	-	-	-
NutrActive [®] 20-10 20-10-0 (+20)	20%	14,6%	5,18%	0,22%	10%	-	-	20%	-	-	-
NutrActive® expert 20-20-0 (+22)	20%	17,1%	2,64%	0,26%	20%	-	-	22%	-	-	-
NutrActive [®] smart 24-12-0 (+20)	24%	16,8%	6,93 %	0,27%	12%	-	-	20%	-	-	-
NutrActive [®] zinc 24-12-0 (+20) +0,5Zn	24%	16,3%	7,45%	0,25%	12%	-	-	20%	-	0,5%	-
NutrActive [®] FerroZinc 11-22-22 (+10) +0,2Fe +0,2Zn	11%	10,8%	-	0,2%	22%	22%	-	10%	-	0,2%	0,2%
NutrActive [®] special 12-12-17 (+30) +2MgO +TE	12%	10,3%	1,53%	0,17%	12%	17%	2%	30%	0,02%	0,01	-
NutrActive magni-plus 14-7-14 (+25) +4MgO +TE	14%	10,7%	3,12%	0,18%	7%	14%	4%	25%	-	0,1%	0,1%
NutrActive [®] leader 15-15-15 (+15)	15%	12,5%	2,28%	0,22%	15%	15%	-	15%	-	-	-
NutrActive® triple-S 15-15-15 (+25)	15%	12%	2,8 1%	0,19%	15%	15%	-	25%	-	-	-
NutrActive [®] olivera 18-6-14 (+12) +2MgO +0,3B	18%	11,9%	5,9%	0,2%	6%	14%	2%	12%	0,3%	-	-
NutrActive® vital 19-9-9 (+19) +0,3Zn	19%	13,9%	4,86%	0,24%	9 %	9%	-	19%	-	0,3%	-
NutrActive [®] magni-bor 20-5-10 (+18) +2MgO +0,5B	20%	12,2%	7,6%	0,2%	5%	10%	2%	18%	0,5%	-	-
NutrActive [®] bor 21-7-11 (+10) +0,3B	21%	13%	7,8%	0,2%	7%	11%	-	10%	0,3%	-	-
NutrActive® plus 24-6-7 (+12) +0,3Zn	24%	14,9%	8,9%	0,2%	6%	7%	-	12%	-	0,3%	-





Innovative fertilizers with nano polymers technology





The fertility power

Innovative fertilizers with nano polymers technology

The new generation Ωmega® fert fertilizers gather all the latest data from agricultural research in crop nutrition and have been developed to significantly change the behavior of nutrients in the soil-plant system.

Through the NHET nano polymer, integrated into each granule, they inhibit the inactivation of nutrients in the soil and minimize losses to the environment.

Thereby, they increase their availability for plants, maximize the efficiency of fertilization and ensure the prolonged nutritional adequacy of the crop for a long period.

The unique ability of Ωmega® fert fertilizers to supply plants with assimilable nutrients, improves crop nutrition and contributes significantly to increasing yields per hectare and improving the quality of agricultural products.







Properties

Ωmega® fert are innovative chemical fertilizers with advanced nanopolymer technology, which gather all the newest data of agricultural research in crop nutrition and have developed to decisively alter the behavior of nutrients in the soil-plant system.

During their production process, NHET nanopolymer is incorporated in each granule and protects the elements from undesired interactions and keeps them actively for absorption for a long period.

Through NHET nanotechnology, they inhibit the inactivation of nutrients in the soil, specially Phosphorus, Potassium, Magnesium, Calcium and Trace Elements, minimize their immobilization in soil and keep them available and absorbable for the plants. The unique ability of **Ωmega® fert** to supply plants with assimilable forms of nutrients, enhances the nutrition of the crop and promotes the increase of yields and improve the quality of production.



Innovative fertilizers with nano polymers technology





Mode of action

Ωmega[®] fert, through nanopolymer NHET, have a triple protective effect. They inhibit Phosphorus immobilization and increase its uptake by plants, minimize the losses of other nutrients, escalate the supply of plants, and react as a chelating agent creating absorbable complexes with Trace elements, keeping them active and available for a long time.

Due to the strong negative electric charge, NHET nanopolymer adsorbs on its surface all cations (Ca, Mg, Fe, Al) which reacting with Phosphorus. This inhibits the formation of insoluble phosphorus compounds on the soil and keeps it available and easy absorbable from the root system for a long period.

Except to the adsorption of cations on its surface, NHET nanapolymer also functions as a "collector" of all positively charged nutrients added to plants with the fertilizer (K, MgO, NH4, Ca, Fe, Zn, B, Mn, Cu), protect them from undesired soil reactions as well as maintains them available for the plants.

In addition, NHET forms stable complexes with trace elements, preventing their oxidation, reduction and precipitation in the soil, and actively preserves them, ensuring adequate supply of the crop throughout its biological cycle.

Ωmega® fert increase the nutrients availability for plants, maximize the efficiency of fertilization and ensure the prolonged nutritional adequacy of the crop for a long period. Due to this action, their promote productivity of crops and improve the quality characteristics of agricultural products.





Advantages

- Protect the fertilizer's nutrients from undesirable interactions and increase their availability to the crop
- Increased uptake and more efficient utilization of Phosphorus and Trace Elements from plants for a long period
- Mobilization of soil nutrients and exploitation of residual elements of previous fertilizations
- Strong growth of the root system and increased uptake of nutrients and water
- Maximize the efficiency of fertilization and improve plant nutrition at all stages of development
- Higher yields per hectare, due to the integrated nutrition of the crop.



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	Total Nitrogen (N)	Ammoniacal Nitrogen (NH4)	Nitric Nitrogen (NO3)	Phosphorus (P2O5)	Potassium (K20)	Magnesium (MgO)	Sulfur (SO3)	Zinc (Zn)	Boron (B)	
Ωmega® fert 15-25-0 (+29)	15%	15%	-	25%	-	-	29%	-	-	
Ωmega® fert 18-23-0 (+23)	18%	16,6%	1,4%	23%	-	-	23%	-	-	
Ωmega® fert 14-18-14 (+27)	14%	12,6%	1,4%	18%	14%	-	27%	-	-	
Ωmega® fert 14-8-18 (+30) +2MgO +TE	14%	10,8%	3,2%	8%	18%	2%	30%	0,01%	0,02%	
Ωmega® fert 14-22-7 (+20) +0,1B +0,1Zn	14%	14%	-	22%	7%	-	20%	0,1%	0,1%	
Ωmega® fert 18-8-14 (+14) +2MgO +0,3B	18%	12,5%	5,5%	8%	14%	2%	14%	-	0,3%	0
Ωmega® fert 20-10-5 (+21)	20%	14,8%	5,2%	10%	5%	-	21%	-	-	
Ωmega® fert 24-8-8 (+7) +0,3Zn	24%	14%	10%	8%	8%	-	7%	0,3%	-	
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The fertility power



Comple=Fert° Drop Nutri=Fast° Drop



The fertility power

Water-soluble fertilizers

The plants take in water and nutrients as building materials to "build" their bodies and perform all vital functions for their development and production.

The preservation and sufficiency of the water and nutrients are essential for the growth of crops, increased yields, and quality products.

With fertigation, modern agricultural practices perfectly combine irrigation and integral crop nutrition.

Water and nutrients are supplied simultaneously, with precision, and localized in the immediate vicinity of the root.

Therefore, their intake by plants is increased, and their utilization by the crop is multiplied, and the effects of both irrigation and fertilizing are maximized.





Comple=Fert® Drop

Properties

Comple-Fert[®] **Drop** are top quality water-soluble fertilizers that incorporate the current data of agricultural research and expertise in the field of crop nutrition.

They were developed in order to best meet the requirements of all the challenging systems of intensive crops. They provide integral and qualitative nutrition in the difficult soil environment of the greenhouse and they cover the particular nutritional requirements of high added value outdoor crops.

The careful selection and optimum combination of the raw materials uniquely allow them to modulate the acidity of the nutrient solution, protecting the nutrients from the formation of insoluble compounds and their immobilization in the soil. Through this mechanism, their losses are minimized and availability in the crop is increased, maximizing the effectiveness of fertilizing in all types of soils.

Particularly in contaminated/saline soils, the acidic nature of **Comple-Fert® Drop** boosts the activity of the root system and, in combination with low conductivity and the absence of chlorine (Cl), it facilitates the intake of nutrients by the plants, ensuring an ideal nutrition of the crop even in osmotic stress or water stress environments.

With a rich composition in primary nutrients and a high content of chelated trace elements, the different fertilizer types of the **Comple-Fert® Drop** series provide high quality nutrition in all soil and climate conditions, and fully meet the needs that arise in each phase of the production cycle of the crop.

Their exceptional purity, studied composition, and high solubility make **Comple-Fert® Drop** fertilizers suitable for every fertigation system, and an ideal choice for the sensitive greenhouse and outdoor crops of horticulture and floriculture.



Water-soluble fertilizers

Comple-Fert

Comple=Fert® Drop



0		Total Nitrogen (N)	Ammoniacal Nitrogen (NH4)	Nitric Nitrogen (NO3)	Carbamyde Nitrogen (NH2)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (MgO)	Sulphur (SO3)	Iron (Fe)	Zinc (Zn)	Manganese (Mn)	Boron (B)	Cooper (Cu)	Molybdenum (Mo)
1	28-14-14	28%	1%	1,9%	25,1%	14%	14%	-	1,1%	700	400	300	300	300	20
-	20-20-20	20%	2,9 %	4,5%	12,6%	20%	20%	-	1,1%	700	400	300	300	300	20
T	18-9-27 +1MgO	18%	1%	4,3%	12,7%	9%	27%	1%	10,5%	700	400	300	300	300	20
	16-8-32 +2MgO	16%	-	6,9%	9,1%	8%	32%	2%	5,2%	700	400	300	300	300	20
	9-15-29 +3MgO	9%	2,5%	3,5%	3%	15%	29 %	3%	19%	700	400	300	300	300	20
	15-35-15	15%	4,8%	1%	9,2%	35%	15%	-	4,1%	700	400	300	300	300	20
SP	12-48-10	12%	7,3%	-	4,7%	48%	10%	-	2,3%	700	400	300	300	300	20
	12-5-41	12%	-	8%	4%	5%	41%	-	8,9%	700	400	300	300	300	20

* Zn, Cu, Mn, Cu chelated EDTA, Fe chelated EDDHA



Properties

Water-soluble

fertilizers

Nutri-Fast Drop are high quality water-soluble fertilizers that were developed to provide targeted and effective nutrition to intensive exploitation outdoor crops.

They contain of all macronutrients (N, P, K, S, Mg) in fully absorbable form and perfectly balanced ratio, and chelated forms of all the necessary trace elements (Fe, Zn, Mn, B, Cu, Mo) that are required for the integral nutrition and vigorous growth of the plants.

Their use in fertigation systems allows for flexibility when planning the nutrition and allows for the preparation of balanced fertilizing programs that meet the nutritional needs of the crop.

The supply of nutrients is uniform, with precisely determined quantities, balanced proportions, and in forms readily available to plants. The fertilizing is fully in line with the nutritional requirements of the crop, the losses towards the deeper layers of the soil are reduced, and water and nutrients intake is improved.

With high solubility, elemental completeness, and custom synthesis, Nutri-Fast Drop boost the development of the root system, increase the resistance of plants to diseases and aridity, and ensure excellent crop nutrition at all stages of development.

Designed to provide precise nutrition, they supply the plants according to their needs, reduce seepage, and conserve resources for the benefit of the crop.

Nutri-Fast Drop combine the economy of fertilizing with high productivity, increase yields, and are the top choice for a reliable and integral nutrition of outdoor horticulture and arboriculture.











Nutri-Fast® Drop

Water-soluble

fertilizers



	Nutri-Fast Drug = 1		Ruta i F	Nutri-Fast and a convert												
0.		Total Nitrogen (N)	Ammoniacal Nitrogen (NH4)	Nitric Nitrogen (NO3)	Carbamyde Nitrogen (NH2)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (MgO)	Sulphur (SO3)	Chlorine (Cl)	lron (Fe)	Zinc (Zn)	Manganese (Mn)	Boron (B)	Cooper (Cu)	Molybdenum (Mo)
	20-20-20	20%	2%	2%	16%	20%	20%	-	5,7%	-	400	300	200	200	200	20
T	19-19-19	19%	4,3%	1,6%	13,1%	19%	1 9 %	-	6,3%	6%	400	300	200	200	200	20
	12-33-12	12%	9,3%	-	2,7%	33%	12%	-	18,5%	-	400	300	200	200	200	20
	15-5-30 +2MgO	15%	1, 9 %	2,7%	10,4%	5%	30%	2%	14%	9 %	400	300	200	200	200	20
N.S.	16-8-24 +3MgO	16%	2,7%	2,2%	11,1%	8%	24%	3%	15%	7,2%	400	300	200	200	200	20
Je	8-12-34 +3MgO	8%	1,5%	2%	4,5%	12%	34%	3%	14,5%	10,4%	400	300	200	200	200	20
A LA	31-8-12	32%	2%	2%	27%	8%	12%	-	2%	3,2%	400	300	200	200	200	20

* Zn, Cu, Mn, Cu chelated EDTA, Fe chelated EDDHA







The fertility power









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