

Nutriphos® NP

Maximize yields

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

All the particular characteristics of Nitrogen and Phosphorus were taken into consideration when developing the Nutriphos® NP fertilizers, and the products developed ensure the maximum availability of these elements in the soil. Their specialized production process ensures the highest solubility (90%) of Phosphorus and increases its absorption by the crops. Nitrogen is contained either in its entirety or for the most part in Ammoniac form, extending nutrition, while the additional enrichment in Sulfur improves its utilization by the plants and enhances the efficiency of fertilizing. Nutriphos® are an ideal source of Phosphorus for plants in all types of soil. Specifically adapted to the requirements of Greek soils, they have a significant advantage to the Nitrophosphate fertilizers which are being imported for the past few years but do not meet the demands of the neutral and alkaline soils of our country to the same extent.

Properties

Nutriphos® NP are high-quality composite multinutrient fertilizers. They uniquely combine the extended action of Ammoniac 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 integral nutrition of the crops. Their excellent granulometry, specialized coating, and integrated technical expertise guarantee that no problems arise while in storage, and ensure a uniform dispersion during application. Nutriphos® NP stimulate the formation of a rich root system and ensure a better establishment and development of the crops in all types of soil.

Nutriphos® 16-20-0 classic (+13S)

Complex NP fertilizer rich in Nitrogen, Phosphorus and Sulphur. It contains all its Nitrogen (100%) in Ammoniac form, thus ensuring the optimum nutrition of the crop throughout its vegetative growth. 90% of Phosphorus is contained in its most water-soluble and absorbable by plants form, that of Monocalcium orthophosphate. The precise content, ratio, and specialized formula of the nutrients make Nutriphos® 16-20-0(+13S) the top NP fertilizer in the Greek market. It is ideal for the basic fertilizing of winter and spring cereals, industrial crops, as well as multiannual arboricultures in soils with low Phosphorus content.

Nutriphos® 22-11-0(+10S) /20-10-0(+8S)

Composite NP fertilizer with Nitrogen, Phosphorus and Sulphur. It is intended for crops with higher demands in Nitrogen during their initial stages of development and in soils adequately supplied with Phosphorus and Potassium. The majority of the Nitrogen contained is in Ammoniac form, and Phosphorus in water-soluble form (90%). Its high Sulphur content increases the utilization of Nitrogen and boosts the intake of Phosphorus and trace elements by the crop. In soils with good Phosphorus-fertility, it constitutes the best choice for the basic fertilizing of winter and spring cereals (wheat, barley, maize) and industrial crops (cotton, sunflower).

Nutriphos® zinc 27-9-0(+4S)+0,5Zn

Complex NP fertilizer with Zinc. With high Nitrogen content and a specialized ratio between its Ammoniac and Nitrate forms, Nutriphos® zinc is intended for crops which have a fast initial growth and large production of plant mass, such as corn. Phosphorus and Zinc boost the robust growth of the root system and contribute to the successful establishment and rich flowering of the culture. Suitable for the fertilizing of corn and other spring cereals.

Nutriphos® oxisoil 15-13-0(+14S)+10CaO+2MgO

Complex NP fertilizer with Calcium and Magnesium. It combines the advantages of an NP fertilizer and the properties of a soil conditioner. Rich in Calcium and Magnesium, it has been developed to ensure the reliable nutrition of crops in acidic soils. Its chemical composition protects the root system of the plants from the harmful effects of acidity and promotes the nitrification of Nitrogen which is inhibited in acidic conditions. Nutriphos® oxisoil, in combination with Calcareous Nitrate Ammonia, constitute the best choice for acidic soils, particularly the cultivation of winter cereals.



Mode of Action

The Nitrogen contained in Nutriphos® NP fertilizers is in its entirety or for the most part in Ammoniac form, while Phosphorus is contained in its most water-soluble and absorbable by plants form, that of Monocalcium orthophosphate. Once the grain of the fertilizer comes in contact with the soil, the Phosphorus contained absorbs water and 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 covers the needs of the crop during the later stages of their development. The presence of Ammoniac Nitrogen and Sulfur creates synergies between the elements, reduces immobility, and increases the efficiency of fertilizing. This mechanism of action makes Nutriphos® the best source of Phosphorus for plants and ideal fertilizers for the particular requirements of Greek soils.



Products	Total Nitrogen (N)	Ammoniac Nitrogen (NH ₄)	Nitrate Nitrogen (NO ₃)	Phosphorus (P ₂ O ₅)	Calcium (CaO)	Magnesium (MgO)	Sulphur (S)	Zinc (Zn)
Nutriphos® 16-20-0 classic (+13S)	16%	16%	0	20%	-	-	13%	-
Nutriphos® 22-11-0(+10S)	22%	16,5%	5,5%	11%	-	-	9,5%	-
Nutriphos® 20-10-0(+8S)	20%	14,8%	5,2%	10%	-	-	8,5%	-
Nutriphos® zinc 27-9-0(+4S)+0,5Zn	27%	16,5%	10,5%	9%	-	-	4%	0,5%
Nutriphos® oxisoil 15-13-0(+14S)+10CaO+2MgO	15%	15%	0	13%	11%	2%	14%	-



Unique Quality
High Solubility
Excellent Granulometry

- Guaranteed supply of nutrients
- uniform dispersion, without gaps in the field
- absence of dust



Strength superiority ...



Nutriphos® classic



Nutriphos® 22-11



Nutriphos® 20-10



Nutriphos® oxisoil



Nutriphos® zinc

Advantages

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


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