HPNP™

WATER-SOLUBLE FERTILISER FOR HIGH pH SOILS

DESCRIPTION

HPNP™ is a water-soluble phosphorus (P), nitrogen (N) and zinc (Zn) fertiliser for high pH soils.

KEY BENEFITS

- Highly water-soluble fertiliser
- Lowers soil pH
- Contains different forms of phosphorus, for improved phosphorus availability and uptake
- Specifically formulated for use in soils that fixates phosphorus (e.g. clay loam soils and high carbonate soils)
- Suitable for application through irrigation system
- Easy to mix and to apply

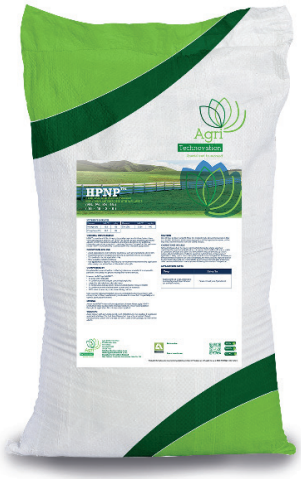
CONTAINS

(N% - P% - K% - S%)
(16 – 18 – 0 – 0)

N 15.8 % W/W

P 17.7 % W/W

Zn 0.084 % W/W



POSITIONING AND FUNCTIONS

In high pH and/or alkaline soils, phosphorus availability is influenced by soil calcium and the presence of minor amounts of iron and aluminium oxides, all of which readily react with phosphate, leading to decrease plant availability.

HPNP™ enhances the availability of phosphate and other soil nutrients by promoting acidity, while inhibiting the formation of strong calcium-phosphorous bonds. HPNP™ is formulated with a unique combination of several phosphorous sources, to ensure a consistent supply of phosphorus to the crop.

The availability of zinc decreases signifi cantly in high pH soils and in soils with high phosphorus levels. Additionally, nitrogen tends to also become more volatile in high pH soils. HPNP™ resolves this problem by lowering pH as well as being a source of zinc and nitrogen.

HPNP™ is ideal for application at the start of the growing season when active root growth occurs. It can also be applied at intervals during the season to maintain a steady supply of nutrients.

REGION
NEW ZEALAND

TYPE
Water-soluble

APPLICATION
- Soil
- Fertigation

PACKAGING
25 KG, 500 KG, 1000 KG

CROPS
- Berries
- Fruit trees & vines
- Grain and field crops
- Kiwi fruit
- Tree nuts
- Turf & grass
- Vegetables

Agri Technovation
Specialized to succeed

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N

Nitrogen is a central component of amino acids, which are the building blocks of plant proteins and enzymes and is an important macronutrient for plant function. Nitrogen plays a vital role in vegetative growth and development and is also required for flowering and fruit set. It is essential in the plant as it ensures that energy is available when and where the plant requires it to maximize yield.

P

Phosphorous is responsible for root development, increased stalk and stem strength, improved flower formation and seed production, more uniform and earlier crop maturity. It is also vital for the plant's metabolic processes as well as cell division, sugar and starch formation and the movement of carbohydrates.

Zn

Zinc is an essential micronutrient and acts as either a functional, structural, or regulatory cofactor of many enzymes. Plant enzymes activated by zinc are involved in carbohydrate metabolism, maintenance of the integrity of cellular membranes, protein synthesis, regulation of auxin synthesis and pollen formation. Zinc is an essential nutrient for young active growing leaves and flowering. The regulation and maintenance of the gene expression required for the tolerance of environmental stresses in plants are zinc dependent.

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