

Maximum Efficiency in Fertigation,  
Foliar Feeding and Hydroponics

**solub**



## FOR QUALITY GAINS

NOP solub is the potassium nitrate of EuroChem, a combination of nitrate nitrogen and potassium. It is a crystalline fertilizer totally soluble in water.

Potassium is the macronutrient related to quality in all crops, it helps to improve fruit size, appearance, nutritional value, flavor and increases the shelf life.

NOP solub is also an important raw material for water soluble NPK production.



## SPECIFICATIONS

$KNO_3$ 13:0:46	CONTENT
<b>Nitrogen (N)</b>	13 %
<b>Nitrate Nitrogen (N-NO<sub>3</sub>)</b>	13 %
<b>Potassium Oxide (K<sub>2</sub>O)</b>	46 %
<b>Potassium (K)</b>	38.2 %
<b>Chloride (Cl)</b>	0.2 % (max.)
<b>Solubility (20°C)</b>	300 g/l water
<b>EC (0.1 % at 25°C)</b>	1.3 mS/cm
<b>pH (5 % solution)</b>	6 - 10
<b>Form</b>	crystalline
<b>Color</b>	white

## INCREASED UPTAKE AND HIGHER RESISTANCE

- NOP solub is a crystalline fertilizer with less than 0.1 % of insoluble matter.
- The synergy between the cation K<sup>+</sup> and the anion NO<sub>3</sub><sup>-</sup> facilitates the uptake of both ions by the plant roots.
- The affinity between the negatively charged nitrate and the positively charged potassium prevents adsorption of potassium to soil particles, making it available to plants for longer time.
- Helps crops build stronger cell walls, therefore it increases the plants resistance to pathogenic factors.
- It improves the ability of the plants to resist to drought.
- Composed of white crystals, it doesn't cake under normal storage conditions.
- Available in 25 kg bags and big bags.



## A VERSATILE SOURCE OF POTASSIUM

- Can be mixed with all other types of water soluble fertilizers and does not contain any element harmful to the plants.
- Is an ideal source of potassium, very versatile, it can be applied in any phenological stage of any crop.
- In K deficient crops or in critical growth phases it can provide a quick K source to solve the deficiency via foliar application.
- On foliar feeding it should be applied from 0.5 to 3 % solution according to the age of the leaves, the sensibility of the crop and the weather.
- As a general guidance, for sensible leaves in horticultural crops and flower production, the foliar application should be between 0.5 and 1 % solution, for fruits it can go from 1.0 to 3.0 % solution.
- Can be dissolved at a maximum rate of 300 g per liter at 20°C.
- Is produced with a maximum moisture content of 0.2 %.



## FOR MAXIMUM EFFICIENCY IN FERTIGATION

EuroChem water soluble fertilizers consists of a complete range of products that make fertigation even more effective. In times of water shortages and increasing demands on farmers, such fertilizing has become indispensable. It provides considerable water savings and fixed dosage of fertilizers, in addition to providing optimized crop nutrition, resulting in increased crop quality and yields.

That is why we have set the bar particularly high in end-sourcing product development. Our high-quality water soluble fertilizers are all free of chlorine and other undesirable elements, and ensure fast and complete dissolution in water. Furthermore, they are ideally suited for all types of application including fertigation, foliar feeding and hydroponics.

The optimization of nitrogen fertilization is a fundamental aspect of modern, sustainable agriculture, which strives for maximum yields in an environmentally friendly manner, with healthy harvests and assured profitability for farmers. However, the use of fertilizers in drip irrigation requires fertilizers that are completely soluble in water and free of impurities, in order to avoid blockages in the irrigation system.



## THE MOST EFFECTIVE WAY TO SUPPLY PLANTS WITH ALL NUTRIENTS



### Optimal nutrient uptake for higher yields

The uptake of nitrogen as ammonium lowers the pH value in the root zone, favoring the uptake of phosphorus and a variety of microelements, which are more readily available at acidic pH levels. Our water soluble fertilizers thus lead to increased root formation and better nutrient assimilation, which also contributes to increased yields.

### Better crop quality

Our water solubles also improve certain aspects of crop quality, including a reduced nitrate content of the leaves and fruit, a more uniform size, increased consistency, improved color and better conservation.

### More environmentally friendly

Applying soluble fertilizers reduces the water contamination by nitrates as well as the emission of nitrogen gases into the atmosphere.

### Improved flowering and fruit setting

Ammonium uptake promotes the synthesis of a number of plant hormones (gibberellins, cytokinins and polyamines), which are responsible for flowering, thus ensuring greater setting, which in turn leads to increased yields.



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