

Maximum Efficiency in Fertigation,
Foliar Feeding and Hydroponics

solub



MORE PRODUCTIVITY AND PROFIT

MAP solub is a fully water soluble monoammonium phosphate fertilizer in the form of a free flowing, crystalline powder. Its main role is as a P fertilizer in fertigation programs: for all fertigated crops under drip irrigation, sprinkler systems, for fertigated greenhouses, vegetables, fruits and flowers in any growing medium, as well as open fields and orchards.

MAP solub is specially recommended in the first stages of growth of plants, when the availability of P is critical for the establishment of root system and the combination of P and N are desired.

The acidic pH of the MAP solub increases the availability of the phosphate and the micronutrients.



SPECIFICATIONS

$\text{NH}_4\text{H}_2\text{PO}_4$ 12%N:61%P ₂ O ₅	CONTENT
Nitrogen (N as NH ₄)	12 %
Phosphorus (P ₂ O ₅)	61 %
Phosphorus (P)	26.6 %
Solubility (20°C)	380 g/l water
EC (0.1 % at 25°C)	0.8 mS/cm
pH (10 % solution)	4.5
Form	crystalline
Color	white

RAPID PLANT UPTAKE

- MAP solub contains both nitrogen (as ammonium, NH₄) and phosphorus (as phosphate, P₂O₅), which are immediately available to plants, suitable for rapid uptake by the crop.
- High in P, main role as a P fertilizer in fertigation programs.
- Can be used as the sole P source throughout the growth period for any crop.
- 100 % assimilable nutrients, ensuring total availability of nitrogen and phosphorus to the plant.
- Chloride and sodium free.
- White, fully water soluble and practically free of impurities and residues.

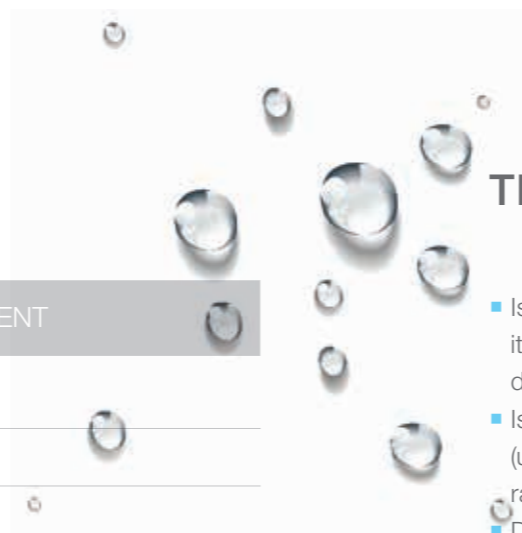
- Quickly dissolves to a clear solution with no clogging of the irrigation system.
- Non hygroscopic and free flowing.
- Moderately acidic.
- Acidifies the solution thus increasing the availability and uptake of P and micronutrients.
- Eco-friendly: negligible amounts of heavy metals.
- No residual contaminants or hazardous residues.
- Safe and easy to store and use.
- Available in 25 kg bags and big bags.



THE PERFECT SOLUTION IN THE FIRST STAGES OF GROWTH

- Is recommended in the first stages of growth of plants, its high P solubility and availability enhances root development and establishment of seedlings.
- Is usually mixed with soluble sources of N (urea, AN) and K (KNO₃, KCl), to balance the N:P:K ratio suitable to the crop requirement.
- Due to especially pure P₂O₅ MAP solub, it can be used as a foliar spray or added to irrigation water without any residues.
- Is compatible with the majority of pesticides and fertilizers. When MAP solub needs to be mixed with other components, it is recommended to perform a compatibility test prior to tank mix.
- Can be mixed with all water soluble fertilizers, except for calcium fertilizers and concentrated magnesium solutions. In hydroponic systems, it should normally be added to the B tank.

- Has a buffering effect which will help stabilize the pH of the solution at around 4.5. Its acid reaction offsets the calcareous soils, thus increasing the availability of P and micronutrients.



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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