



Quality Nutrient Additive Solution

Solutions the Professionals Use

Benefits of NK TOP UP

- Highly soluble Nitrogen and Potassium
- Superior highly soluble chelated Trace elements
- Improved buffering capacity for hydroponic solutions and soils
- Added wetting agent for improved nutrient penetration in coco-peat, soils and potting mix

HY-GEN is the mark of guaranteed quality. All nutrient additive solutions are made using High Quality Hydroponic Grade constituents. All formulations and procedures have been prepared under careful supervision by our Qualified Chemist who has more than 20 years experience in Hydroponics, Analytical Chemistry, Environmental Chemistry and Agriculture.

NK TOP UP is a formulation designed to replenish *Nitrogen (N)*, *Potassium (K)* and *Trace elements* levels in your nutrient solution during the growth or vegetative stage. Trials have shown that during the first few days after renewing the working solution, plants absorb N, K and Trace elements at a rapid rate. This is usually visible by an initial burst in growth rate. After a few days the growth rate begins to slow down.

PK TOP UP is a formulation designed to replenish *Phosphorus (P)*, *Potassium (K)* and *Trace elements* levels in your nutrient solution through all stages especially during heavy flowering and fruiting. Trials have shown that during the first few days after renewing the working solution, plants absorb P, K and Trace elements at a rapid rate. This is usually visible by an initial burst in growth rate and ripening of fruit. After a few days the growth rate begins to slow down.

Using **NK TOP UP** and **PK TOP UP** regularly, gives your plants a continued supply of valuable nutrients and Trace elements when they are needed most. When the nutrient levels aren't TOPPED UP, nutrient levels can fall to dangerously low levels in just a few days. This can eventually lead to yellowing of the leaves or *chlorosis* (nutrient deficiency symptom). This may affect leaf growth and lead to flower and fruit abortion and/or affect fruit size and shape resulting in very low and poor quality yields. This can vary depending on tank volume, plant size and the number of plants.

NK TOP UP and **PK TOP UP** are formulated with additional **chelated** Trace elements. Trace elements can rapidly be absorbed by your plants and rapidly depleted from the solution. This can include Trace elements such as **Iron, Manganese, Copper, Zinc, Molybdenum and Boron**. **NK TOP UP** and **PK TOP UP** contain high quality chelated forms of these elements to ensure maximum solubility and availability through a broader pH range. This is a huge benefit for your plants when demand is high.

NK TOP UP and **PK TOP UP** now also contains an additional buffer to help maintain a more stable pH in your nutrient solution. The additional buffer helps you the grower maintain a more stable pH in your nutrient solution even in hard water. **NK TOP UP** and **PK TOP UP** can also be used as a foliar spray to encourage vigour in fresh cuttings and seedlings. Foliar Feeding is one of the fastest pathways for nutrient uptake. Using **NK TOP UP** and **PK TOP UP** (depending on stage) as a fine spray over the leaves can help correct early signs of some nutrient deficiencies before leaves, flowers and fruit

Benefits of PK TOP UP

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show signs of advanced stages of chlorosis known as necrosis (dead cells appearing as brown spots).

NK TOP UP and **PK TOP UP** is designed to be compatible soil, potting mix and with all hydroponic systems including re-circulating and run to waste systems. It is also compatible with most growing mediums such as rock wool, expanded clay, perlite, coir (coco-peat), vermiculite, peat moss and pine saw dust.

NK TOP UP and **PK TOP UP** is fantastic soil improver and soil supplement. It works well on vegetables, flowers, lawn, fruit trees and many other popular plants. The results are rapidly visible when used as directed.

Applications

FOLIAR SPRAY: Apply as a fine mist over the leaves. Ensure that all leaves are sufficiently covered. If leaves appear light in colour apply a mist every few days and supplement the roots with **PK TOP UP** as directed below depending on your type of growing medium and system.

HYDROPONICS: RE-CIRCULATING: (NFT with no medium, expanded clay). Apply every 3 to 5 days. This may vary depending on tank volume, plant size and the number of plants.

HYDROPONICS: RUN-TO-WASTE: (Rock wool, perlite, coco-peat, vermiculite, peat moss and pine saw dust). Apply to your nutrient solution to maintain green thick foliage. Apply once a week.

SOIL AND POTTING MIX: Apply the solution around the plant's base avoiding direct contact with the main stem. Apply once a week.

NOTE: If you are growing hydroponically and your plants have strong deficiency symptoms (necrosis) immediately dump the tank and make up a fresh nutrient solution. Ensure that you use the correct pH and Electrical Conductivity (EC). If you are using a growing medium, flush it with fresh water before using fresh nutrient. **NK TOP UP** and **PK TOP UP** can extend the time between dumping cycles and is no way a substitute for a regular dumping schedule.

This is intended as a guide only. Growers should consult with their local hydroponic retail store and garden centres for additional tips and advice.

