



SQM

The most acidic potassium nitrate source



Ultrasol[®]
K Plus Acid



Ultrasol[®] K Plus Acid is the most acidic potassium nitrate source with a low pH level of 4, obtained already at 0,1% solution.

When applied in fertigation, its acidic pH helps to prevent magnesium and micronutrients precipitates under their oxide form or as insoluble phosphate salts.

When used in a foliar application, its low pH acidifies the spray tank solution, which helps to improve nutrient availability, nutrient uptake by the leaf and the stability of the majority of pesticides.





Key advantages of **Ultrasol® K Plus Acid**

Acid pH

A pH level of 4 can already be achieved when only 1 gram per litre is dissolved (0,1% solution).

Ideal N and K sources for use under saline conditions

Ultrasol® K Plus Acid is frequently used when the irrigation water is saline with high levels of chloride. High nitrate levels are applied in the nutrient solution to counteract the negative effects of chloride excess imbalances.

This K source is free of sulphate and chloride, which avoids any further salt accumulation in the rooting zone. Therefore Ultrasol® K Plus Acid helps to reduce soil salinity problems.

Nitrate nitrogen

Nitrate nitrogen is non-volatile and enhances the uptake of other cations (K⁺, Ca⁺⁺, Mg⁺⁺). Nitrate nitrogen is the most efficient nitrogen source for plant growth.

High purity

Very low in chloride, sodium and heavy metals.

Fully soluble

Ultrasol® K Plus Acid is a free-flowing, fine crystalline powder that quickly dissolves in water.

Compatibility

Ultrasol® K Plus Acid can be mixed with all water-soluble fertilizers and is also compatible with the majority of pesticides in foliar application.

All-round

Due to its low N/K ratio, Ultrasol® K Plus Acid is suitable for all crops and growth stages, including flowering and ripening stages.

Fertigation and foliar application

Ultrasol® K Plus Acid is a tank mix acidifier with nutritional values, for fertilizer and spray tank.

Unlike the actual potassium nitrate sources, SQM has created a strong acidifying product that has at least 100 times more acidifying power, which offers a pH=4 (measured at only 0,1% solution in demineralized water under lab conditions).

Fertigation

For growers who use a fertigation system and who are dissatisfied with the lack of acidifying power of the actual potassium nitrate sources, SQM's Ultrasol® K Plus Acid is a strong acidifier for the A-B tank system, which reduces the pH < 6,2 of the mother tank solutions, also under hard water conditions, in order to prevent magnesium and micronutrients precipitates under their oxide form or as insoluble phosphate salts.

Foliar application

For growers who use foliar applications and who are dissatisfied with the lack of acidifying power of the actual potassium nitrate sources, SQM's Ultrasol® K Plus Acid is a strong acidifier for the spray tank solution, which reduces the pH to acidic levels, also under hard water conditions, in order to improve nutrient availability and the stability of the majority of pesticides in the spray tank mix solution.

Because this product is a strong acidifier, it is highly recommended that the pH of the final spray tank mix is checked before application starts, as pH levels below 4 may provoke scorching.

SQM's **Ultrasol® K Plus Acid**



Ultrasol® K Plus Acid is specifically developed for the most sensitive applications like hydroponics and NFT, with and without re-circulation of the drainage water. It can also be used for other fertigation systems and for foliar applications.

Ultrasol® K Plus Acid	
Total nitrogen content (N-NO ₃)	13,9 % (min)
Total potassium content (K ₂ O)	45,0 % (min)
Total chloride content (Cl)	< 0,2 %
Solubility (g/l at 20 °C)	316
Insolubles	< 0,005 %
EC (1 g/l at 25 °C, in mS/cm)	1,3
pH at 0,1% / 1% / 10% solution, measured in demineralized water	3,9 / 3,1 / 2,3
Form	Crystalline, odourless powder
Colour	White

Ask your local SQM agronomist or distributor for a Specialty Plant Nutrition program in accordance with your local needs and requirements.

DISCLAIMER.

All information is given to the best of SQM's knowledge and is believed to be accurate. Your conditions of use and application of the suggested products and recommendations are beyond our control. There is no warranty regarding the accuracy of any given data or statements. SQM specifically disclaims any responsibility or liability relating to the use of the suggested products and recommendations and shall under no circumstances whatsoever, be liable for any special, incidental or consequential damages which may arise from such use.

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