



THE WORLDWIDE  
BUSINESS FORMULA

# Ultrasol<sup>®</sup> K      Ultrasol<sup>®</sup> K Plus



**Ultrasol<sup>®</sup> K** is the leader potassium source for all growth stages with additional nitrate nitrogen for quick absorption by the plant. Free of chloride and mixable with all water-soluble sources. This combination makes **Ultrasol<sup>®</sup> K** the most all-round and the most efficient water - soluble K source of its kind.

**Ultrasol<sup>®</sup>** is a complete range of water-soluble nutritional solutions, designed to offer an integrated solution in fertigation, starting from the plant's need per phenological phase, including both macro- and micronutrients, which contributes to an efficient nutrient absorption.

**Ultrasol<sup>®</sup>** is powered by **The Element Q**, the exclusive warranty seal **SQM's** business formulae, which boosts the yield of your crop and optimizes the profitability of your business.



Macronutrients • Micronutrients • By Stage • By Crop • Acid Line

[www.sqm.com](http://www.sqm.com)

## KEY ADVANTAGES OF ULTRASOL® K

### High Purity

Ultrasol® K is very low in chloride, sodium and heavy metals.

### Fully Soluble

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

### Compatibility

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

### Nitrate Nitrogen

Nitrate nitrogen is non-volatile and enhances the uptake of other cations ( $K^+$ ,  $Ca^{2+}$ ,  $Mg^{2+}$ ). It is the most efficient nitrogen source for plant growth.

### No Salt Accumulation

Ultrasol® K can be used to cover the potassium needs of a crop without supplying excess of sulphate or chloride.

### All-Round

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



## FERTIGATION AND FOLIAR APPLICATION

### Fertigation

Potassium Nitrate is an indispensable component in all well-balanced fertigation programmes, both for soil-grown crops and hydroponic systems. Ultrasol® K, used as a K source, will provide part of the nitrate nitrogen. It is the only K source suitable for intensive cropping without risk of sulphate or chloride salt accumulation. Under saline or alkaline conditions, Ultrasol® K is the only suitable K choice.

For intensive horticulture, nitrate nitrogen is the optimum nitrogen source. A high  $NO_3^-/NH_4^+$  balance assures sufficient uptake of  $Ca^{2+}$  and  $Mg^{2+}$  and avoids root degeneration, especially at high soil temperatures. Additionally, nitrogen losses by volatilization are avoided. For hydroponic systems, the most intensive and sensitive technique, this is even more important.  $KNO_3$  in a hydroponic system is imperative and today's horticulture would not be the same without potassium nitrate.

### Foliar Application

Due to low risk of leaf burning (low EC-value and osmotic pressure) and wide compatibility with other plant nutrient sources and pesticides, Ultrasol® K is widely recommended for foliar plant nutritional use. Foliar application of Ultrasol® K is an excellent way to supply additional nitrogen and potassium during critical physiological or environmental conditions. Furthermore, important physiological processes such as dormancy break (mango and deciduous fruits), ripening, fruit maturation, etc. can be influenced with foliar applications of Ultrasol® K.

## SQM's ULTRASOL® POTASSIUM NITRATE RANGE

SQM offers different grades of potassium nitrate, designed for specific uses and applications.

For the fertigation segment, two products are now available:

1. **Ultrasol® K** is the standard grade that is recommended for soil bound fertigation and other open drain systems and for foliar applications.

2. **Ultrasol® K Plus** 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 systems of fertigation and for foliar applications.

	ULTRASOL® K	ULTRASOL® K PLUS
Nitrate Nitrogen ( $NO_3$ )	13,5 % (min)	13,7 % (min)
Potassium Oxide ( $K_2O$ )	45,5 % (min)	46,3 % (min)
Potassium (K)	37,8 % (min)	38,4 % (min)
Chloride (Cl)	< 0,6 %	< 0,2 %
Solubility (g/l at 20 °C)	316	316
Insolubles	< 0,1 %	< 0,5 %
pH (5 % solution)	8 - 10	8 - 10
Form	Crystalline, odourless powder	Crystalline, odourless powder
Colour	White	White

Ask your local SQM agronomist for a specialty plant nutrition programme in accordance with your local needs and requirements.

### DISCLAIMER.

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