



SQM

A range of water-soluble straight fertilizers

for use in fertigation programs



Ultrasol[®] Macronutrients



Ultrasol[®] Macronutrients are high quality fertilizers and indispensable in every fertigation program.



Ultrasol[®] Macronutrients are fully water-soluble fertilizers, low in chloride and contributing to an efficient nutrient absorption.



Ultrasol[®] Macronutrients can be easily integrated in a balanced fertigation program in function of the crop's needs in each phenological stage, the irrigation water quality and the soil nutrient reserves.

Ultrasol[®]
K Plus

Ultrasol[®]
Magnum P44[®]

Ultrasol[®]
SOP

Ultrasol[®]
Calcium

Ultrasol[®]
MAP

Ultrasol[®]
Magsul

Ultrasol[®]
MKP

Ultrasol[®]
Magnit



Ultrasol® K Plus 13,7-0-46,3

- Ultrasol® K Plus potassium nitrate is the ideal potassium (K) source to grow outstanding crops with additional supply of directly available nitrogen (N) in the form of nitrate.
- Free flowing, fine, crystalline potassium nitrate powder, which quickly dissolves in water.
- The most efficient water-soluble K-source for fertigation.

Ultrasol® SOP 0-0-51,4+18 S

- Ultrasol® SOP potassium sulphate is a fully water-soluble crystalline potassium (K) and sulphur (S) source.
- Applied in fertigation of soil-grown crops during maturation phase, supplying part of the potassium without nitrogen.
- In hydroponic systems Ultrasol® SOP is applied in the first place as sulphate source for crops that require high amounts of sulphur or increased salinity levels.
- Ultrasol® SOP has an acidic pH, which helps to prevent blockage of nozzles and drip lines of irrigation systems.

Ultrasol® MAP 12-61-0

- Ultrasol® MAP mono ammonium phosphate is a nitrogen (N) and phosphorus (P) source, high in phosphorus.
- Phosphorus is essential for root development and crop establishment.
- Ultrasol® MAP has the ability to buffer fertigation solutions keeping the pH at around 4,5 for optimal root uptake.
- Can be mixed with all water-soluble fertilizers other than calcium containing fertilizers.

Ultrasol® MKP 0-52-34

- Ultrasol® MKP mono potassium phosphate is a potassium (K) and phosphorus (P) source.
- It is free of nitrogen, which favours its use in intensive horticulture in specific stages and conditions where N is not required.
- Can be mixed with all water-soluble fertilizers other than calcium containing fertilizers.

Ultrasol® Magnum P44® 18-44-0

- Ultrasol® Magnum P44® urea phosphate is unique as the strongest acid fertilizer in dry, crystalline form, facilitating safe and convenient handling.
- Thanks to its acidic action, Ultrasol® Magnum P44® considerably increases the absorption of nutrients from the soil by the plant.
- Prevents blocking of irrigation systems.

Ultrasol® Calcium 15,5-0-0+26,3 CaO

- Ultrasol® Calcium, calcium nitrate is an important source of both calcium and nitrate nitrogen, essential in fertigation programs in hydroponic systems.
- Calcium is essential for cell wall formation and stability, and increases the plant's natural defense system against pathogens.
- Nitric nitrogen is the most efficient nitrogen source for plants and enhances the uptake of cations (K⁺, Ca⁺⁺ and Mg⁺⁺).
- Cannot be mixed with sulphates and phosphates in highly concentrated or alkaline mother solutions to avoid precipitations of insoluble salts.

Ultrasol® Magsul 16 MgO+33 SO₃

- Ultrasol® Magsul magnesium sulphate is a sulphur (S) and magnesium (Mg) source, used in fertigation schemes to cover the plant's need of these secondary macronutrients.
- S contributes to the formation of certain essential amino acids and proteins, while Mg is a key component of chlorophyll improving energy uptake and carbohydrate formation.
- Ultrasol® Magsul can be mixed with all water-soluble fertilizers other than calcium containing fertilizers.

Ultrasol® Magnit 11-0-0+15,5 MgO

- Ultrasol® Magnit magnesium nitrate is a nitrogen (N) and magnesium (Mg) source, free of sulphur, limiting the oversupply of sulphate in fertigation programs.
- Ultrasol® Magnit contains nitric nitrogen, the most efficient nitrogen source for plants that acts synergistically on the uptake of magnesium and other cations.

Guaranteed	Ultrasol® K Plus	Ultrasol® SOP	Ultrasol® MKP	Ultrasol® MAP	Ultrasol® Magnum P44®	Ultrasol® Calcium	Ultrasol® Magsul	Ultrasol® Magnit
Nitric nitrogen (N-NO ₃)	13,7%					14,4%		10,7%
Ammonium nitrogen (N-NH ₄)				12,0%		1,1%		
Ureic nitrogen (N-NH ₂)					17,5%			
Phosphorus pentoxide (P ₂ O ₅)			52,0%	61,0%	44,0%			
Potassium oxide (K ₂ O)	46,3%	51,4%	34,0%					
Magnesium oxide (MgO)							16,2%	15,5%
Calcium oxide (CaO)						26,3%		
Sulphur (S)		18,7%					13,2%	
Sulphur trioxide (SO ₃)		46,8%					33,0%	
Solubility (g/l at 20°C)	316	124	230	380	960	1000	710	2250
EC (1 g/l at 25°C, in mS/cm)	1,3	1,5	0,7	0,9	1,5	1,2	1,2	0,9
pH (in 1% solution)	9,0	2,6	4,5	4,5	1,8	5,4	8,0	5,7

DISCLAIMER.

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