SANGRAL®INE

POTASSIUM NITRATE

Science shows that plants need iodine

The application of Sangral®ine potassium nitrate conveniently and adequately ensures the iodine supply to fertigated crops in order to maximize crop yield and quality, and improves plant resilience to environmental stress.

- Improved root growth
- Optimal nitrogen metabolism
- Improved canopy development and branching
- Optimal photosynthesis
- Improved tolerance to oxidative stress
- Improved flowering and fruit quality
- Improved calcium concentration in the fruit and better shelf life

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SANGRAL®INE POTASSIUM NITRATE

Potassium
An essential nutrient for yield and quality

- Promotes the production of proteins
- Promotes photosynthesis
- Intensifies the transport and storage of carbohydrates
- Improves uptake efficiency of N fertilizers
- Improves water use efficiency
- Promotes lycopene synthesis

Nitrate
The preferred nitrogen source

- Non-volatile
- Promotes the uptake of cations (K^+, Ca^{++}, Mg^{++})
- Nitrate is readily absorbed by the plant
- Nitrate limits the uptake of chloride
- Efficient conversion to amino acids in the leaves

*Benefits of **Sangral®ine Potassium Nitrate:***

Root growth	• More and better developed primary and secondary roots • Improved active uptake of water and nutrients
Nitrogen conversion	• Optimized conversion of nitrate to proteins • Reduced cell damage by reactive oxidized nitrogen forms
Plant growth (above ground)	• Increased growth rate of above ground biomass • Increased yield • Earlier harvest • Improved stem branching for a better interception of light
Photosynthesis	• Higher concentration of chlorophyll • Better conversion of solar energy to chemical energy • Increased conversion of CO_2 to sugars
Tolerance to abiotic stress	• Higher level of antioxidants like vitamin C and polyphenols • Mitigating loss of production from adverse environmental conditions
Flowering and fruit quality	• Better fruit set, leading to more uniform fruit size • Better colour and earlier ripening of fruits with a higher sugar content
Fruit rot and shelf life	• Less fruit rot and enhanced shelf life by increased Ca concentration in the fruits • Improved water transport by better photosynthesis and root function, increases translocation of calcium to the fruits

*Properties of **Sangral®ine Potassium Nitrate***

Sangral®ine Potassium Nitrate is an indispensable component in well-balanced nutrition programs for fertigation of crops, grown in soil or hydroponic systems.

Sangral®ine Potassium Nitrate ensures an adequate supply of iodine in the nutrient solution.

Specifications of Sangral®ine Potassium Nitrate	
Nitric nitrogen ($N\text{-}NO_3$)	13,7% min
Potassium oxide (K_2O)	46,3% min
Solubility (g/l at 20°C)	316
Insolubles	< 0,02%
EC (1 g/l at 25°C, in mS/cm)	1,35
Colour	white

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

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