



**PRODUCT INFO  
& DATASHEET**

# SICO-MAP 12.61.0

## MONO AMMONIUM PHOSPHATE

Water soluble grade for fertigation & foliar application  
Made in E.U.

### **PRODUCT DESCRIPTION**

SICO-MAP is a fully water soluble mono ammonium phosphate 12-61-0 fertiliser, a highly efficient source of phosphorus and nitrogen for plants.

SICO-MAP is recommended for use at the beginning of the growing season because phosphorus availability is crucial for the establishment of root system at this stage. SICO-MAP can serve as a high quality source of phosphorus also during other stages of the growth cycle.

Its high purity and water solubility makes SICO-MAP an ideal fertiliser for fertigation and for foliar application. SICO-MAP is suitable for preparation of fertiliser blends and production of liquid fertilisers.

### **ADVANTAGES**

- fully water soluble
- consists of 100% plant nutrients
- highly-concentrated source of phosphorus for plants (61% P<sub>2</sub>O<sub>5</sub> / 27% P)
- free of chloride, sodium and other detrimental elements for plants
- moderately low pH (safer and less corrosive compared to urea phosphate)
- suitable for the fertigation, foliar application and production of fertiliser blends and nutrient solutions.

DOUBLE BENEFIT: Not only that SICO-MAP is an efficient source of phosphorus, it also facilitates plant uptake of the phosphorus naturally present in the soil. This is due to the ammonium (NH<sub>4</sub><sup>+</sup>) in SICO-MAP, which lowers the pH in the root zone and thus enhances phosphorus availability.

### **PRODUCT ANALYSIS**

| Nutrient                      | Content (%)                 |
|-------------------------------|-----------------------------|
| P <sub>2</sub> O <sub>5</sub> | 61                          |
| P                             | 27                          |
| N-total                       | 12                          |
| N-NH <sub>4</sub>             | 12                          |
| Water insolubles              | max. 0.10 % (typical 0.08%) |
| Moisture                      | max. 0.20 % (typical 0.04%) |

### **WATER SOLUBILITY**

The solubility of SICO-MAP is considerably enhanced by increase in water temperature, as shown in the following table:

| Water temperature (°C)     | 0    | 10   | 20   | 30   | 40   |
|----------------------------|------|------|------|------|------|
| Solubility (g/100 g water) | 22.7 | 29.5 | 37.4 | 46.4 | 56.7 |

### **PH AND EC**

SICO-MAP has a moderately low pH that remains almost constant at different concentrations.

| Concentration (%) | 0.1 | 0.2 | 0.3 | 1.0 | 5.0 |
|-------------------|-----|-----|-----|-----|-----|
| pH                | 4.7 | 4.6 | 4.6 | 4.4 | 4.2 |

The electrical conductivity (EC) increases substantially when high concentration of SICO-MAP are used.

| Concentration (%) | 0.1  | 0.2  | 0.3 | 1.0 | 5.0  |
|-------------------|------|------|-----|-----|------|
| EC (mS/cm)        | 0.86 | 1.66 | 2.5 | 7.4 | 27.8 |

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**SICO FERTILISERS**  
 EVERY TIME THE *right* SOLUTION