



# SICO<sup>®</sup>-KMS Natural Potassium(K) Magnesium(M) Sulphate(S) 25% K2O + 7% Mg (= 11.6% MgO) + 16% S

Available as granular chips and as powder, suitable for organic agriculture For chloride and salt-sensitive crops Origin: China

01/2021

# **1. PRODUCT SPECIFICATIONS/CERTIFICATE OF ANALYSIS**

#### \*PHYSICAL PROPERTIES

- granular chips: size 2-5 mm: min. 90%
- or powder: size 120-200 mesh: min. 90%



## \*CHEMICAL ANALYSIS & GUARANTEED VALUES

Parameter	GRANULAR CHIPS	POWDER
Potassium Oxide (K2O)	Min. 25% (typical 25-26 %)	Min. 25% (typical 26-28%)
Sulphur (S)	Min. 16-17%	Min. 16-17%
Natrium (Na)	Max. 0.7%	Max. 0.7%
Chloride (Cl)	Max. 0.5%	Max. 1.5%
Magnesium (Mg)	Min. 7% (= 11.6% MgO)	Min. 7% (= 11.6% MgO)
Phosphorus Pentoxide (P2O5)	Max. 1%	Max. 1%
Calcium (Ca)	Max. 0.2%	Max. 0.2%
Insolubles	Max. 0.05%	Max. 1%

Heavy metals: Pb/As/Cd = lower than 10 ppm

Cr: not found

## **2. APPLICATION**

\* SICO<sup>®</sup>-KMS is a highly concentrated fertiliser containing the 3 nutrients potassium, magnesium and sulphur, all in the sulphate form.

All 3 nutrients are readily water soluble and immediately available to plants.

\* SICO<sup>®</sup>-KMS has a low salt index and is virtually chloride-free. It is thus an ideal K, Mg and S source for chloride and salt-sensitive crops such as fruits, vegetables, grape-vines, hops, potatoes, sunflowers and forest trees.

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy himself of the suitability for his own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.

> SAP INTERNATIONAL CORPORATION bvba Krekelenberg 69, B-2980 Zoersel, Belgium Tel. +32-3-309.06.51 Fax. +32-3-309.19.31 Email : info@sico.be Website : www.sico.be







\* SICO<sup>®</sup>-KMS is effective on all soil types, irrespective of pH.

\* SICO<sup>®</sup>-KMS is cleared for use in organic farming systems as potassium, magnesium and sulphur are derived from naturally occurring salt deposits.

\* SICO<sup>®</sup>-KMS contains potassium, magnesium and sulphur in an ideally balanced ratio for plant growth and development. This is of particular importance in crops with a specific demand for sulphur (oil crops, cabbage, onion, leek) or magnesium (potatoes, legumes).

\* SICO<sup>®</sup>-KMS is the ideal potassium and magnesium source for chloride or salt sensitive crops such as tobacco, potato, fruits, vegetables, grapes, ornamentals etc.

\* SICO<sup>®</sup>-KMS is a well-established potassium and magnesium fertiliser in nurseries and forestry.

#### Fertilisation advice

<u>Crop</u>	<u>kg SICO®-KMS /ha</u>
Potatoes	600 - 1,200
Cabbage & carrots	800 - 1,200
Fruit	400 - 600
Berries	600 - 800
Flower bulbs	500 - 1,000
Vegetables (full soil)	600 - 800

#### At what time to apply SICO®-KMS?

\* SICO<sup>®</sup>-KMS may be applied up to just before sowing or planting, because of the low salt index, even in draught periods.

\* It is recommended to apply SICO<sup>®</sup>-KMS in light soils especially in spring time.

\* When a Kali (potassium) deficiency has been observed, one may apply SICO<sup>®</sup>-KMS as Kali (potassium) fertilisation (because low chloride fertiliser) also during the growth period of the crop on condition sufficient soil humidity is present.

#### For what crops?

\* For Kali (potassium) fertilisation of all chloride-sensitive crops (see table 1)

SICO<sup>®</sup>-KMS is the ideal fertiliser.

Table 1: Chloride-sensitive crops:

-	peas
-	raspberries
-	strawberries

- conifers
- blackberries

- berriescherries
- ornamental plants
- beans
- flowers
- \* For limited chloride-sensitive crops with relatively high risk for salt damage (see table 2), SICO<sup>®</sup>-KMS is to be used, certainly on the lighter soil types, to provide Kali (potassium).

Table 2: Limited chloride-sensitive crops with relatively high risk for salt damage

- factory potatoes	
- tree nurseries	- flower bulbs
- seed and consumption potatoes	- onions
- nearly all vegetables	- fruit trees
-	

- flax

\* In fruit and vegetable cultures, next to the fact that many vegetable crops are chloride-sensitive, SICO<sup>®</sup>-KMS is required to reach the highest quality.

\* In potato cultures, SICO<sup>®</sup>-KMS assures less blue-sensitiveness and better conservation during storage. Consumption potatoes fertilised with SICO<sup>®</sup>-KMS taste better. In cultures of factory potatoes, fertilisation with SICO<sup>®</sup>-KMS instead of chloride-holding Kali, increases the starch yield and the underwater weight - thus the payable weight - is improved.

## **3. PACKING**

25 kg laminated pp + pe bags, 1000 kg pallets, 20 MT/20' container for <u>powder</u> and about 22 MT/20ft for <u>granular</u>.

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