



**PRODUCT INFO  
& DATASHEET**

## SICO-MAG 16

### Magnesium Sulphates Heptahydrate, Grade V

High purity water soluble fertilisers - Origin: China

**Unique : granular (min. 99%) and granular crystalline (min. 99.5%) 3-5 mm !**

update 10/2022

#### 1/ INTRODUCTION

We offer 5 different standard types/grades:

- **Grade I min. 99% purity, wet:** This is the cheapest grade, just as it is after being crystallised = when price is all-important.
- **Grade II min. 99% purity, dry, free flowing, 0.1-1 mm size**
- **Grade III = our TOPSELLER: min. 99.5% purity, dry, free flowing, 1-3 mm or 2-4 mm size:** Is more expensive than grade II but is frequently used by customers needing this size (which also presents less risk for lumping).
- **Grade IV min. 99.5% purity, dry, free flowing, 0.1-1 mm or 1-3 mm size**
- **Grade V - Unique size 3-5 mm, granular (min. 99% purity) and granular crystalline (min. 99.5% purity)**

We offer in this Grade V, 2 types of dry flowable 3-5 mm granule size :

- **Type 1 min. 99% purity, granular, 3-5 mm size** (= produced by compacting 0.1-1 mm size powder into white granules.)
- **Type 2 min. 99.5% purity, crystalline granular, 3-5 mm size**

#### 2/ PRODUCT DESCRIPTION

Chemical name Magnesium Sulphate Heptahydrate  
Molecular formula  $MgSO_4 \cdot 7H_2O$   
CAS number 10034-99-8

#### 3/ PHYSICAL AND CHEMICAL PROPERTIES

Appearance odourless granular or crystalline granular products of 3-5 mm size.

#### 4/ SPECIFICATIONS

	Type 1 <b>granular</b>	Type 2 <b>crystalline granular</b>	TEST RESULT
<b>Appearance</b>	<b>granular</b>	<b>crystalline granular</b>	
<b>Purity</b>	<b>min. 99 %</b>	<b>min. 99.5 %</b>	<b>99.69 %</b>
Magnesium Oxide (MgO)	min. 16 %	min. 16 %	16.28 %
Magnesium (Mg)	min. 9.8 %	min. 9.8 %	9.82 %
Sulphur (S)	min. 12.8 %	min. 12.8 %	12.85 %
pH	4.5-6.5	4.5-6.5	6.2
Iron (Fe)	max. 10ppm	max. 10ppm	5ppm
Chloride (Cl)	max. 250ppm	max. 250ppm	130ppm
Heavy metals (as Pb)	max. 8ppm	max. 8ppm	5ppm
Water insolubles	max. 0.01 %	max. 0.01 %	0.005 %
Particle size	3-5 mm (granular)	3-5 mm (crystalline granular)	

#### 5/ APPLICATIONS AND USE

- \* Used as a high quality fertiliser in agricultural crops.
- SICO-MAG 16 is applied after being dissolved in water through irrigation systems or as a foliar spray.
- \* Used in the formulation of high quality NPK fertilisers. Readily soluble, practically without residues; always vigorously stir the salt into water or solution.



**6/ STORAGE :** Store at a cool and dry place. Excessive storage pressure and large temperature fluctuations can result in caking, which can be broken up by pounding of the bags.

**7/ PACKING :** This product is packed in 25 kg net woven polypropylene 'SICO' bags with inner liner pe, about 27 MT/20' container (loose bags).

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

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