



**PRODUCT INFO
& DATASHEET**

SICO-MAG 16, Magnesium Sulphate Heptahydrate
min. 16% MgO, Grade IV, min. 99.5% purity (dry, free flowing)
High purity agricultural fertiliser, water soluble - Origin: China

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)**

All 5 grades are used esp. for fertiliser use, but Grade III is mostly used where high quality & flowability is of utmost importance.

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 white crystalline product

4/ SPECIFICATIONS – Grade IV (dry, free flowing)

Purity ($MgSO_4 \cdot 7H_2O$ (on dry basis)	min. 99.5%	<u>Analysis results (on lot 220 MT)</u>
Magnesium Oxide (MgO basis)	min. 16%	99.71
Magnesium (Mg)	min. 9.5%	16.28
Sulphur (as S)	min. 12.8%	9.70
Chlorides	max. 0.03%	13.10
Fe	max. 0.0015%	0.002
Heavy metal (as Pb)	max. 0.0005%	0.0003
As	max. 0.0002%	0.0003
Cd	max. 0.0010%	0.0001
Water insolubles	max. 0.05%	/
pH value	4.5 – 7	0.01
		6.5

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). (Can be palletised on request.)

8/ REMARK

Please study also our SICO Specialty Magnesium fertilisers:

- SICO-MAG+B: Magnesium Boron complex fertiliser 30% MgO + 6% B2O3
- SICO-MAG+PHOS: Magnesium Phosphate 35% MgO + 12% P2O5
- SICO-MAG+B+S: Magnesium Boron Sulphur complex fertiliser 30% MgO + 6% B2O3 + 16% S

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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