



**PRODUCT INFO  
& DATASHEET**

**SICO-MAG 23, Magnesium Sulphate Trihydrate**  
**min. 22.50% MgO + 18% S (white powder or granular)**  
*High purity agricultural fertiliser - Origin: China* 05/2018

**1/ PRODUCT SPECIFICATIONS**

Molecular formula: MgSO<sub>4</sub>.3H<sub>2</sub>O  
 CAS number: 15320-30-6  
 EN number: 231-298-2  
 HS code: 28332100  
 Molecular weight: 174.37

**\* PHYSICAL PROPERTIES**

Appearance: powder (particle size 40-80 mesh) or granular (particle size 20-80 mesh)  
 Color: white  
 Odor: odorless  
 Specific gravity: 0.8-0.9 g/cm<sup>3</sup>  
 Solubility: 34.2 g/100 ml (at 20° C)

**\* CHEMICAL ANALYSIS**

	Standard specifications		Analysis result (on sample dd 7/05/2018)	
Purity (MgSO <sub>4</sub> .3H <sub>2</sub> O)	99	% min.	99.12	%
Purity (Mg SO <sub>4</sub> )	67.5	% min.	68.35	%
MgO	22.5	% min.	22.78	%
Mg	13.5	% min.	13.67	%
S	18	% min.	18.2	%
Chloride (Cl)	≤ 50	ppm	40	ppm
Iron (Fe)	≤ 15	ppm	9	ppm
Arsenic (As)	≤ 2	ppm	1	ppm
Total Heavy Metals (as Pb)	≤ 10	ppm	2	ppm
Insoluble in the water	≤ 10	ppm	2	ppm
pH (5 % w/v solution)	4.5 - 6.5		5.4	
Results of analysis	QUALIFIED			

Price for granular is 10 USD/MT higher than powder price.

**2/ APPLICATIONS & USE**

Magnesium is the center element of chlorophyll. It is the activating agent of many enzymes and as such it can promote the metabolism of carbohydrates, nucleic acid synthesis, the conversion of phosphate, etc.

It is involved in the synthesis of proteins as an element of multi-core proteins. It is the transmission medium of genes as part of the composition of genes.

- In agriculture as source of magnesium & sulphur to increase growth and output. Also helps to loosen soil and improves soil quality.
- In the cosmetic industry is used in the preparation bath salts etc.
- It is also used in medical industry as an antiarrhythmic agent against cardiac arrest.
- It is also used in marine aquaria to maintain the magnesium concentration.
- Magnesium sulphate heptahydrate is used as electrolyte in preparation of copper sulphate.

**3/ PACKING**

25 kg or 50 kg Sico pp + pe bags (25 MT/20' fcl without pallets)

**4/ STORAGE & TRANSPORT**

Store in a cool, dry and well-ventilated place. Protect from extremes of temperature and humidity during storage.

**5/ SHELF LIFE**

one year

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