MG

Agriculture

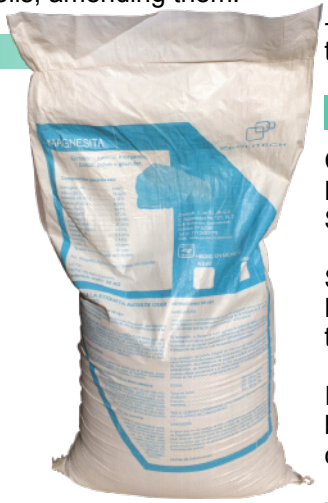
OMRI LISTED
For Organic Use

Description

Commercial name: MG - Magnesite
Formula: $CMgO_3$

Magnesite or magnesium carbonate, is a mineral alternative to chemical nutrition, especially in soils where magnesium and iron deficiencies often cause chlorosis problems on the crops. It also improves the plants resistance to certain pests and deseases. The Magnesite works for all type of crops and has a favorable efficiency even in eroded soils, amending them.

Composition



ELEMENT	%
Carbon (C)	4.09
Nitrogen (N)	3.99
Silicon (SiO_2)	28.42
Magnesium (MgO)	27.36
Calcium (CaO)	8.73
Iron (FeO)	3.87
Aluminium (Al_2O_3)	1.18
Nickel (Ni)	0.14
Potassium (K_2O)	0.105
Manganese (MnO)	0.072
Phosphorus (P_2O_5)	0.05
LOI	16.17

*Analysis based on Fluorescence spectroscopy (XRF) practiced on a dry sample. The Loss On Ignition (LOI) was determined by igniting the sample at 950°C for 1 hour.

Physical properties

Color: Light green.
Moisture: 5% maximum.
Molecular weight: 84.31 gm.
Relative density: 2.958 g/cm^3.
Solubility: INSOLUBLE (>0.01%)

Presentation

Available mesh:
MG-006: mesh 4x10 (sizes from 2 to 5mm)
MG-100: mesh 30x100 (0.1 to 0.6mm - powder)

Package: polypropylene 50 kg sacks.

Benefits

- It is completely natural.
- It is environmentally friendly since it does not salinize nor erode the soils.
- Immediately corrects chlorosis caused by magnesium and iron deficiency.
- It's a slow release nutrition source.
- It's compatible with chemical and organic fertilizers.
- Does not pose a threat to beneficial bacteria.
- It can be applied in all type of soils and climates.
- It's ideal for all type of crops, since it contains micronutrients that complete the nutrition.

Recommendations

Clayey soils	100 - 150 kg/Ha
Loamy soils	200 - 250 kg/Ha
Sandy soils	300 - 350 kg/Ha

Starter fertilizer mixtures can contain up to 15% per ton of Magnesite. DO NOT to exceed the recommended dosage, thus even a natural rock, the Magnesite can cause toxicity.

It is suggested to apply directly into the first centimeters of soil before sowing or planting, or use on established crops the closest to the root system.

The recommeded dosage will mostly depend - besides on the soils structure - on the content of existing nutrients, as well as the soil pH and CEC (Cation Exchange Capacity), thus ocasionally, an inappropriate pH or high contents of certain elements interfere with the adsorption of other nutrients and the plant intake is far from optimal, creating deficiencies which lead to low production and poor quality; therefore, it is always suggested to fertilize - whenever possible - based on a soil analysis, in order to get the best results out of the products.

Precautions

This product is NOT food grade; it is not suggested to ingest. Since it can cause skin dryness and powder lungs, it is recommended to employ special safety equipment for handling: overall and gloves, respirator and goggles. It is NOT corrosive nor toxic, although it is volatile. In case of eye or skin contact, wash with abundant water. Keep away from the sun and moisture, preferably on pallets. Dispose the package in an appropriate place, ensuring to not pollute the closest water bodies.

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