

Suspension fertilizer with sulfur

Siarkomag

Guaranteed content: MgO – 5% (66 g/l) SO_3 – 85% total (1130 g/l) SO_3 – 10 % water soluble (130 g/l)

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Description and performance

Siarkomag is a highly concentrated, suspension foliar fertilizer containing perfectly balanced sulfur and magnesium. Used in the case of shortage of or increased demand for sulfur in: rapeseed, cereals, sugar beets, corn, potatoes, apple trees and vegetables.

Sulfur and its significance:

- conditions the correct utilization of nitrogen fertilizers and nitrogen transformation in the plant
- increased immunity to diseases and vermin
- constitutes an important building block for protein amino acids
- takes part in carbohydrate and fat formation processes
- participates in photosynthesis, chlorophyll synthesis and many other structural compounds.

Symptoms of sulfur deficiency:

- impeded plant growth
- fragile and thin stalks
- chlorosis of young leaves and shoot ends (distinctive whitening may occur)
- spoon-shaped leaf bending
- impeded lateral growth of leaves
- formation of sterile ears.

Magnesium and its significance:

- basic building block of chlorophyll – plays a key role in the photosynthesis process
- indispensable for synthesis, transport and storage of stock substances
- activates the operation of a number of enzymes
- participates in the plant's energy processes as a connector of the enzyme with the energy carrier (ATP)
- helps to keep the right structure of ribosomes
- controls the hydration of biocolloids, thus influencing the plant's water management
- strengthens the plant's resistance to diseases.

Symptoms of magnesium deficiency:

- wilted shape of the plant
- marble-pattern chlorosis of older leaves
- necrosis and dying of older leaves
- fall of lower leaves
- "pearl-like" or "bead-like" deformation of cereal plants
- purple discoloration between the nerves in cherry leaves, later turning into necrosis.

Application

Shake (stir) the **Siarkomag** package before use to ensure equal distribution of the suspension throughout the container. Apply foliarly in the form of water suspension or together with urea, monohydrate magnesium sulfate, foliar fertilizer and a proper tested pesticide in the lower dose recommended by the manufacturer.

Apply the spray with the mixer turned on.

Preparation of the working solution: with simultaneous application of all permissible components – in the sprayer tank (filled up with water to around 2/3 of the capacity), with the mixer turned on, dissolve, one by one, the monohydrate magnesium sulfate, urea, Siarkomag, another foliar fertilizer and pesticide, according to its application instruction. Fill up the tank with water. Use the liquid immediately after preparation.

Apply the spray with the mixer turned on.

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NUTRIENTS % (m/m):

- water soluble magnesium oxide (MgO) – 5.0 (66 g/l)
- water soluble sulfur trioxide (SO_3) – 10.0 (130 g/l)
- total sulfur trioxide (SO_3) – 85.0 (1130 g/l).

Dosage:

PLANT	DOSAGE [l/ha]	TIME OF APPLICATION	NUMBER OF APPLICATIONS	Amount of working solution [l/ha]
RAPESEED	2.0-3.0	From the 5th leaf to the beginning of flowering	2-4	200-300
CEREALS	2.0-3.0	From the 3rd leaf to the beginning of blade formation	1-3	200-300
SUGAR BEET	2.0-3.0	From the 4th leaf to the merging of rows	1-2	200-300
CORN	2.0-3.0	I – 4–6 leaves phase, II – 8–10 leaves phase, III – 7–10 days of the previous treatment	3-5	200-300
POTATOES	2.0-3.0	From the leaf development phase to the end of flowering	2-5	200-300
APPLE TREE	1.0-3.0	I – at the phase of bud setting, II – 10–14 days of the previous treatment	3-5	500-1000
VEGETABLES	2.0-3.0	2 weeks after planting the seedlings	1-2	500-1000

Effects:

- Effectively and quickly prevents shortages of sulfur and magnesium
- Increases resistance to diseases and fungi
- Increases yield and improves yield quality
- Makes the plants resistant to stress conditions
- Increases protein production
- Participates in reduction of nitrates
- Bonds atmospheric nitrogen
- Controls chlorophyll synthesis
- Improves carbohydrate management

Effects of application in selected plants

- RAPESEED: improved yield and quality of rapeseed oil.
- CEREALS: improved technological quality of wheat and barley grain.
- SUGAR BEET: improved concentration of sugar in the roots.
- CORN: increased yield and improved plant quality.
- POTATOES: increased starch, beta-carotene and vitamin C.
- APPLE TREE: increased resistance of the plantation.
- VEGETABLES: improved taste and fragrance of the vegetables, reduced nitrate content.

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We have been building our experience in the fertilizer industry since 1992. Our goal is to manufacture fertilizers making it possible to derive the very best nature has to offer... For this reason, our extensive product range entails the latest developments in biotechnology, in particular top grade chelates (chelation level confirmed by PCBC – Polish Center for Testing and Certification).

As a result of our close long-term cooperation with scientific institutes and universities, we have manufactured proven and effective products. We constantly monitor our production process and incorporate the requisite modifications in striving to continue improving our offer and aligning it to meet customer needs and expectations.

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