

Optima Sugar+

Optima Sugar+ contains a high concentration of calcium combined with nitrogen, magnesium, organically complexed manganese and trace elements. Virtually all crops, especially sugar beets, will benefit from these nutrients during the growth phase.

Optima Sugar+ has been specially developed by Soiltech for use in sugar beet cultivation. Calcium plays a crucial role in building sugar levels (brix) in the crop. Sugar beets in particular make a lot of sugars and transport them to the tuber, increasing the sugar content in the beet. Magnesium, manganese and nitrogen is necessary for the formation of chlorophyll, which is essential for the production of sugar.

BENEFITS

- Improves sugar production.
- Very highly concentrated product with a high concentration of calcium.
- Contains organically complexed trace elements, so that the nutrients are better absorbed by the crop.
- Easy to combine in the tank mix.
- Very gentle on the crop.

FUNCTIONS OF CALCIUM

- Is an important element for achieving high Brix values.
- Provides strong cell walls.
- Increases stress tolerance.

FUNCTIONS OF MANGANESE

- As a catalyst, ensures that all kinds of plant processes proceed faster and better.
- Important for photosynthesis.
- Plays an important role in the vitality of the leaf.

FUNCTIONS OF MAGNESIUM

- Essential part of chlorophyll.
- Stimulates sugar transport.
- Important co-factor for many enzymatic reactions.



COMPOSITION

Nitrogen (N) total	81 g/kg
Nitrogen (N) nitric	79 g/kg
Calcium (CaO)*	144 g/kg
Manganese (Mn)*	14,7 g/kg
Magnesium (MgO)*	10,0 g/kg
Iron (Fe)*	3,29 g/kg
Boron (B)*	0,33 g/kg
Zinc (Zn)*	0,27 g/kg
Copper (Cu)*	0,14 g/kg
Molybdenum (Mo)*	80 mg/kg
Specific gravity	1,56 kg/l
pH	2,0 – 3,5
Appearance	thick brown liquid

* =soluble in water

After dilution (1:100):

pH*	6,9
Conductivity*	8,7 mS/cm

*Measured in a 1 in 100 dilution with local tap water.

Variation may occur when using a different water source.

EC FERTILISER

PACKAGING

Available in 17,5 litre containers and in IBC's.

APPLICATION RATES

Foliar application

(maximum concentration 1:50)

- **Sugar beet:**
3x 3 liter per hectare per year, in combination with last herbicide, first fungicide and second fungicide application.
OR
2x 4 liter per hectare per year, in combination with last herbicide and first fungicide application.
- **Arable crops:**
3-4 liter per hectare.
4-6 times per year, during leaf development.
- **Vegetables/broccoli:**
4 liter per hectare.
3-5 times per year, from 2 weeks after planting to 3 weeks before harvest.
- **Rapeseed:**
2 - 3 liter per hectare.
2 times per year, first application before winter with a herbicide, 2nd application from stem formation.
- **Tree nursery, vineyards and (small) fruits:**
4 liter per hectare.
5-8 times per year, during leaf development (after flowering)
- **Other crops:**
3-4 liter per hectare.
2-6 times per year, during leaf development (after flowering).

INSTRUCTIONS FOR USE

- **Shake or stir well before use.**
- Store in a cool dry place away from direct sunlight.
- This product has been tested and can be stored safely at temperatures from 5°C to 25°C. Crystallisation and/or sedimentation may occur below 5°C
- Apply with a maximum concentration of 1:50.
- Do not treat if the temperature is >25°C or if it might rise to >25°C in the hours after application. Preferably perform the treatment at the end of the day. Do not apply product close to harvesting
- The miscibility and/or performance cannot be guaranteed if combined with another agent. Before mixing, performing a preliminary test is recommended.
- Do not mix with other products in pure, undiluted form. Not compatible with products containing phosphate and/or sulphate.
- The best before date on the upper side is guaranteed if the product is stored according to these guidelines in the unopened original packaging. Do not pre-mix and/or store in a diluted form. Only store in the original packaging and close the cap immediately after use.

Warning: These recommendations are provided for guidance only. As Soiltech cannot exercise control over storage, handling, application or use, or weather, plant or soil conditions before, during or after application (all of which may affect the performance of our programme), no responsibility or liability for any failure in performance, losses, damages or injuries (consequential or otherwise) arising from such storage, application or use will be accepted under any circumstances. The buyer assumes all responsibility for the use of Soiltech products. Soiltech recommends consulting an agronomist prior to product application. Should these recommendations differ from any fertilising advice received, Soiltech recommends following that advice. If in doubt, Soiltech suggests you contact your consultant. The general terms and conditions of delivery apply to all our deliveries. These can be found on www.soiltech.nl.