



Lebosol 

More than 30 years of experience in plant nutrition

Foliar fertilisation for sugar beet

Optimum nutrient supply

sustainable plant nutrition



Things to know about foliar fertilisation

Increasing weather extremes are leaving its mark on sugar beet cultivation. These situations also can induce nutrient deficiency. Even if this is not visible at first, it affects the quality, yield and the sugar content. Sunburn also occurs more frequently and is often not even considered as a yield limiting factor. Foliar fertilisation ensures an effective and rapid supply of nutrients even under unfavourable growing conditions.

Avitar® – triple effect!

Organic NK fertiliser with anti-stress effect and unique formulation of three natural ingredients:

- ✿ Amino acids
- ✿ Algae extract
- ✿ Humic and fulvic acids



VITALoSol® GOLD SC – From our GOLD series: Nutrient supply and vitality

Nutrients: 36% elemental **sulfur** (570 g/l S), 2.4% total **copper** as copper oxychloride (40 g/l Cu), 9.6% total **manganese** as manganese carbonate (150 g/l Mn)

Advantages of VITALoSol® GOLD SC in sugar beet:

- ✓ Optimal application of sulfur, copper and manganese
- ✓ Supports and improves the nitrogen utilization
- ✓ Stable yields
- ✓ Robust and vital plants



Briefly explained

Important elements and their key functions in sugar beet cultivation

- ✿ **Boron** is important for flower quality and frost tolerance. It also supports potassium uptake.
- ✿ **Molybdenum** plays an important role in the in the conversion of nitrogen in the plant.
- ✿ **Magnesium** promotes phosphorus uptake and ensures green leaf colour.
- ✿ **Zinc** is important for flower quality. It makes the plants more resistant to radiation stress (less sunburn).
- ✿ **Manganese** improves the use of the available nitrogen and makes the plants more tolerant to dry periods and radiation stress (less sunburn) and it can contribute to the better frost tolerance.
- ✿ Sugar beet plants respond good to **Sulphur** for effective use of nitrogen to stabilize yield and quality.
- ✿ **Silicon** is not a nutrient, but it helps plants regulate their water balance. It promotes root formation and thus phosphorus and potassium uptake. It also plays an important role in improving stress tolerance.



Our recommendations for the optimal nutrient supply in sugar beet cultivation:

| For what? | Which product? | When and how often? | | | | |
|---|---|------------------------|----------------------------------|--------------------------------|---|--------------------|
| | | Germination BBCH 00 | Leaf development BBCH 12 – 18 | Rosette growth BBCH 30 – 38 | Development of beet root BBCH 39 – 48 | Harvest BBCH 49 |
| ✓ Seed treatment with nutrients for improved development at early stages | Lebosol®-Total Care or Avitar® | 0,2 – 0,5 l/dt | | | | |
| ✓ Improving stress tolerance ✓ Vitality ✓ Enhances the effectiveness of foliar herbicides | Lebosol®-Total Care or Avitar® | | 1 – 2 times 3 l/ha | | | |
| ✓ Cells integrity ✓ Protects against heart and dry rot ✓ Influences sugar content | Lebosol®-Boron/ Lebosol®-AqueBoron SC 150 (BIO) | | | 2 – 3 times 2 l/ha | | |
| ✓ N-efficiency ✓ Vitality ✓ Leaf quality | Lebosol®-Molybdenum (BIO) | | | 1 – 2 times 0,25 l/ha | | |
| ✓ Reduces drought stress ✓ Promotes root growth ✓ Elevates sugar content | Lebosol®-Silicon | | | 1 – 3 times 0,5 l/ha | | |
| ✓ Reduction of radiation stress (antioxidant) ✓ N-efficiency ✓ Water balance | Lebosol®-Manganese 500 SC + Lebosol®-Zinc 700 SC (BIO) | | | 1 – 2 times 1 l/ha + 1 l/ha | | |
| ✓ Revitalisation ✓ Improving stress tolerance ✓ N-efficiency | VITALoSol® GOLD SC (BIO) | | | 2 – 4 times 3 – 5 l/ha | | |
| ✓ Photosynthesis performance ✓ Leaf quality ✓ Vitality | Lebosol®-MagSOFT SC | | | 1 – 3 times 3 – 5 l/ha | | |

Top 3 most unique Lebosol® products for sugar beet cultivation:



Avitar®

Organic NK fertiliser with anti-stress effect

Ingredients:

47 g/l N, 24 g/l K₂O



Lebosol®-AqueBoron SC 150

Produced with the latest findings in formulation technology

Ingredients:

150 g/l B, 62 g/l Na



VITALoSol® GOLD SC

From our GOLD series: Nutrient supply and vitality

Ingredients:

150 g/l Mn, 40 g/l Cu, 570 g/l S

We are happy to be there for you!

How to contact us:



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Our team members on the advice line are happy to help you.



www.lebosol.de/en

Send us a message via our contact form.



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You can also find us online via our social media channels:



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