

## High yields and quality through optimal nutrient supply

Climate change is leaving its mark on cereal cultivation. Water scarcity is more frequent and spring drought is now not only a regional problem. As a result, nutrient deficiencies are more common. Even if they are not visible at first, they might have a serious impact on yield and grain quality. Sunburn also occurs more frequently and is often not even identified as a serious problem. Foliar fertilisation ensures an effective and rapid supply of nutrients.

### Avitar® – triple effect!

Abiotic stress, growth, nutrient uptake

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

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

A vitar®

## Lebosol®-Silicon – Formulation is a key to an effective foliar applications!

Lebosol®-Silicon contains silicon in the form of stabilised orthosilicic acid. This is being absorbed without any restrictions via the leaf and can thus be quickly moved into the plant tissue.

### Trial in winter wheat with Lebosol®-Silicon

Üplingen (Sachsen-Anhalt; 11.06.2021)



Control



Variant with Lebosol®-Silicon

## We are happy to be there for you!

How to contact us:



**+49 6328 98494-80**

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



**www.lebosol.de/en**

Send us a message via our contact form.



**beratung@lebosol.de**

Send us an email.



### Download now – the Lebosol® App!

Current and exclusive test results, explanatory videos on product handling and much more.

**Available on Google Play and in the App Store.**

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



**www.lebosol.de/en**

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Cereals · Cereals · Cereals · Cereals · Cereals · Cereals · Cereals



**Lebosol** ✿

**More than 30 years of experience in plant nutrition**





**Foliar fertilisation in cereals**

Optimal nutrient supply





Our recommendations for the optimal nutrient supply in cereals:

For what?	What?	When?					
		BBCH 00	From 3-leaf stage BBCH 13	Stocking BBCH 21 – 29	Shooting to flag leaf BBCH 30 – 45	Earshift BBCH 51 – 58	Until beginning of flowering BBCH 59 – 61
✓ Seed treatment with nutrients for improved development at early stages	Lebosol®-Total Care or Avitar®	0.2 – 0.5 l/dt					
✓ Development at early stages and promotion of root growth ✓ Energy and water balance ✓ Stem stability	Lebosol®-Silicon		2 times 0.5 l/ha				
✓ Improving flower quality and frost tolerance ✓ Yield	Lebosol®-Boron 		2 times 0.5 l/ha				
✓ Reduction of drought stress ✓ Leaf quality ✓ Water balance	Lebosol®-Manganese 500 SC + Lebosol®-Zinc 700 SC 		1 – 2 times 0.5 l/ha + 0.5 l/ha				
✓ Stem stability ✓ Vitality ✓ N-efficiency	Lebosol®-Copper 350 SC 		1 – 2 times 0.25 – 0.5 l/ha				
✓ Vitality and Yield ✓ N-efficiency ✓ Better frost tolerance	Lebosol®-Cereal-Mix SC		2 – 3 times 1 – 2 l/ha				
✓ Revitalization ✓ Improving of stress tolerance ✓ Protein content	VITALoSol® GOLD SC 		1 – 3 times 2 – 5 l/ha				
✓ Photosynthesis efficiency ✓ Protein content ✓ Grain yield	Lebosol®-MagSOFT SC				1 – 3 times 3 – 5 l/ha		

Top 3 most unique Lebosol® products for cereals:



VITALoSol® GOLD SC

From our GOLD series:  
Nutrient supply and vitality  
**Ingredients:**  
150 g/l Mn, 40 g/l Cu, 570 g/l S



Lebosol®-Total Care

Anti-stress effect due to the addition of Aminosol®  
**Ingredients:**  
120 g/l N, 10 g/l P<sub>2</sub>O<sub>5</sub>, 35 g/l K<sub>2</sub>O



Lebosol®-Cereal-Mix SC

Optimal for cereals with the most essential nutrients  
**Ingredients:**  
30 g/l N, 200 g/l MgO, 25 g/l Cu, 180 g/l Mn, 80 g/l Zn

Briefly explained –  
Important elements and their key functions in cereal cultivation

- ✓ **Crops with nutrient deficiency will be more susceptible against diseases and abiotic stress. Foliar fertilization with macro-and micro-elements will ensure an optimized plant nutrition.**
- ✿ **Potassium** boosts resistance to stress, drought, and frost. Key function in water management (turgor regulation).
- ✿ **Phosphorus** is an energy carrier and promotes root formation.
- ✿ **Boron** is important for flower quality, grain set and frost tolerance. It also supports potassium uptake.
- ✿ **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.
- ✿ The cereals respond good to **Sulphur** for effective use of nitrogen to stabilise 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.

