Leaf fertilisation –
Optimal nutrient supply via the leaf

Foliar fertilisation ensures an effective and rapid supply of nutrients for crops in key growth stages when they are needed, also for better fruit quality and improved shelf life.

Increasing weather extremes are leaving its marks on pome fruit cultivation. Periods of drought happen more often, which can reduce the number of fruits per tree and the fruit size. These phenomena also can induce nutrient deficiency. Even if this is not visible at first, it affects the quality of the fruit and later the performance of the trees, shrubs and plants.

An extra for better stability –
Lebosol®-Silicon with the effective formulation

Silicon is not classed as an essential nutrient and yet it supports many processes in plants such as:

- ✓ Regulation of the water balance
- ✓ Improving of stress tolerance
- ✓ Extending the shelf life of the fruits

Even if silicon is already present in the soil as a silicate (e.g. potassium silicate), it cannot always be absorbed in sufficient quantities by the roots. To be effective as a foliar fertiliser, silicon must be supplied in the form of orthosilicic acid (Lebosol®-Silicon contains stabilised orthosilicic acid). Only this form can be absorbed without restriction via the leaf.

Silicon has got not only beneficial characteristics itself, but also promotes the absorption of other essential nutrients such as potassium, calcium and phosphorus.

As of: April 2025

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:

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Lebosol

More than 30 years of experience in plant nutrition

Foliar fertilisation in stone and berry fruit
The right nutrition for fruit and plant

sustainable plant nutrition

Our recommendations for the optimal nutrient supply of your stone fruit and berries:

For what?	Which product?	When and how often?						
		Breaking open the buds	Bloom formation	Full flowering	End of flowering	Fruit growth	Fruit development to ripeness	Post-harvest
✓ Flower quality and fruit set ✓ Reduction of radiation stress	**Avitar®**				2 – 3 times 3 – 5 l/ha			
✓ Fruit set and size ✓ Less rubella ✓ Against scharka-induced symptoms	**Aminosol®**			3 times 5 – 7.5 l/ha				2 times 2 l/ha
✓ More vitality (e.g. during frost for flowering)	**Aminosol® + Lebosol®-Robustus SC + Lebosol®-Potassium 450**		1 – 2 times 2 l/ha + 2 l/ha + 5 l/ha					
✓ Water transport (reduction of heat stress) ✓ Elimination of iron chlorosis	**Lebosol®-HeptaIron**				2 – 4 times 3 – 7 l/ha via the leaf			
		30 – 60 ml/tree or 300 – 400 ml per 100 m row (over the ground, per can)						
✓ Fruit quality ✓ Bursting strength ✓ Shelf life	**Lebosol®-Silicon + Phytoamin®**			2 – 4 times 1 l/ha + 5 l/ha				
✓ Photosynthesis performance ✓ Leaf quality ✓ Vitality	**Lebosol®-Magnesium 400 SC**		2 – 3 times 3 – 5 l/ha					
✓ Fruit firmness ✓ Shelf life	**Lebosol®-Calcium-Forte SC**				2 – 5 times 4 – 8 l/ha			
✓ Radiation stress reduction (antioxidant) ✓ Leaf quality ✓ Water balance	**Lebosol®-Manganese 500 SC**				2 – 3 times 0.5 l/ha			

Top 3 of the most popular Lebosol® products for stone fruit and berries:

Lebosol®-Zinc 700 SC

Fertilizer suspension for the supply of the active mineral zinc
Ingredient: 700 g/l Zn

Lebosol®-Silicon

Trace nutrient fertiliser solution for the targeted stabilisation of plant cells
Ingredients: 7 g/l Fe, 20 g/l Zn, 20 g/l N, 610 g/l SiO_3

Lebosol®-HeptaIron

Iron fertiliser solution complexed with heptagluconic acid
Ingredient: 55 g/l Fe

Briefly explained –
Important elements and their key functions in stone and berry fruits

✓ **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** provides better resistance to drought and frost. However, it also plays an important role in the colouring of the fruits as well as can determine the fruit size.
- **Calcium** is needed to stabilise the cell walls and cell membranes and so the fruit quality. Sufficient calcium helps to improve shelf life.
- **Boron** is important for the quality of the blossoms, the fruit set and the frost tolerance of the blossoms and it also supports calcium absorption. Therefore, it increases shelf life.
- **Magnesium** promotes & influences growth dynamics, acts as a phosphorus carrier and maintains green and vigorous new growth.
- **Zinc** is important for flower quality and size growth. It makes the plants more resistant to radiation stress (less sunburn).
- **Manganese** improves the use of the available nitrogen and makes the plants more stable in times of drought and radiation stress (less sunburn).
- **Iron** is essential for chlorophyll formation, photosynthesis and water balance.