

Fertigro SiL: Liquid Silicium

Potassium meta silicate (SiL) is a liquid fertilizer which can be applied in various crops, such as cucumber, squash, melon and Roses. It has a positive effect on the production and stability of the plant. Silicon is known as a building block for the membranes of the cells and provides firm cell walls. In particular, in the epidermis of the plant is determined much silicon. This makes silicon is seen as an important element for the protection against fungal infections. Fertigro SiL is optional in the various Fertigro packages.

Composition:	K ⁺	6,50 mol/kg	=	30,6% K ₂ O
	Si	3,23 mol/kg	=	19,4% SiO ₂
	OH ⁻	6,50 mol/kg		
	Density	1,61 kg/ltr		

Available packages:

- * bulk
- * Multibox, 1206 kg (900 ltr)
- * barrel of 268 kg (200 ltr)

Method of dosing:

- Not in the A and B tanks, the product will immediately precipitate so it is not absorbed by the plant.
- via the mixing vessel by means a metering pump
- After the A and B by means of baking a metering pump in the discharge pipe for the pH control
- in leach (both fixed - if liquid fertilizers)
- In case of direct injection-units in the same manner as the other fertilizers. There is then no risk of precipitation because the "plant concentration" is injected.

Dosing

The dosed amount usually ranges from 0.50 to 0,75mmol / l

The silicon that is present in for instance spring water is only partially available for the plant. Maximum 30% of the silicon is plant available. When Potassiumsilicate is applied also alkalic is applied. When liquid fertilizers like Fertigro KL-50 or KBL are used this has to be corrected in the preparation of the fertilizer tank.

Dosing table Fertigro SiL

mmol Silicium/liter	Fertigro® SiL gift reckoned to		Adjustment B tank of 1000 liters, 100 x conc.	
	A/B-bak 1000 liter, 100 x gec.		Fertigro® KL-50	Fertigro® KBL
0,25 mmol / liter	+ 4,8 liter		-3,8 liter	- 5,0 liter
0,50 mmol / liter	+ 9,6 liter		- 7,6 liter	- 9,9 liter
0,75 mmol / liter	+14,4liter		-11,4 liter	- 14,9 liter