

AgriSil K50®

Reg. No. B3756, Act 36 of 1947

Biostimulants















AgriSil K50® (B3756)

 $Agrisil~K50^{\circ}$ is a registered trademark of PQ Corporation. Req. No. B3756, Act.36 of 1947

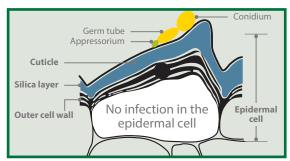
A *potassium silicate* based liquid fertilizer for silica supplementation in all crops.

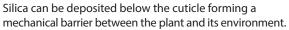
Why use $AgriSil\ K50^{\circ}$?

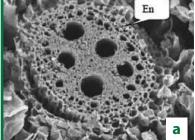
Features	Benefits	
An extremely soluble plant available form of silica	Efficient uptake of silica with results achievable at comparatively low application rates	
Silica strengthens plant cells	Improved cell strength results in improved crop quality (e.g. reduced lodging in barley, shelf-life of flowers/fruit, etc.) Improved crop tolerance to abiotic stress (e.g. heat/cold/drought) and related crop losses (e.g. physiological fruit drop)	
Silica deposits around vascular tissue support vascular functioning	Improved water use efficiency and better translocation of nutrients can result in better yield especially under stress conditions	
Silica is a 'catalyst' of natural resistance responses in plants	Improved natural resistance to a wide range of pests and diseases making $AgriSil\ K50^{\circ}$ an ideal partner in any IPM program	
Non-toxic agricultural input with no MRL requirements	AgriSil K50° can be applied up to and during the harvesting period	

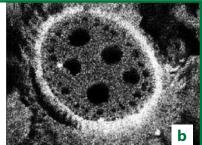
How does AgriSil K50® work?

Silica and cell strength









Silicon deposits (far right) help re-inforce the vascular bundles keeping them open and leading to more efficient transport of water and nutrients.

Silicon also acts as a 'catalyst' of natural plant resistance mechanisms. This means that where there is sufficient silica available to the plant, resistance responses are more complex and occur quicker.

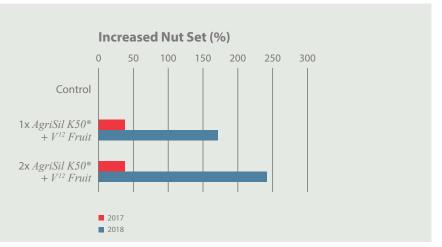
* $NB-AgriSil K50^{\circ}$ does not function as a pesticide in any way as it has no direct effect on any pest or disease. It simply helps activate and enhance the plants own natural resistance mechanisms.

Trial data:

Silica reduces stress resulting in improved fruit retention on fruit/nut crops

Figures right: The use of silica helps improve stress tolerance. In this particular trial (Macadamias) the improved stress tolerance resulted in a reduction in physiological drop and improved nut retention.

Data from a trial report by Subtrop Research (E. Joubert, 2018).



Reduces cold stress

Images right: Banana plants subjected to cold stress for 4 days at 4°C.

The right plant treated with $AgriSil\ K50^\circ$ prior to stress illustrated greater tolerance to cold. Work done at UKZN.

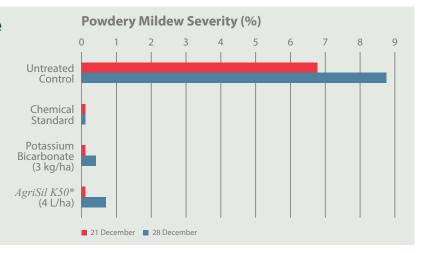


Silica improves natural resistance to pests and diseases

Figures right: Silica supports the plants natural immunity to pests and diseases. In this trial, on Crimson Seedless grapes, improved resistance resulted in a reduction in powdery mildew severity. This makes $AgriSil\ K50^{\circ}$ an ideal addition to IPM programmes.

ASC Research (2017).

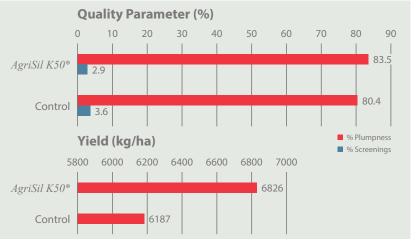
Note: $AgriSil\ K50^{\circ}$ is not a fungicide, the response seen in this trial is purely a result of improved natural resistance.



Improved grain quality and yield in barley

Figures right: $AgriSil\ K50^{\circ}$ improves stress tolerance in barley. In this particular trial this resulted in improved grain quality parameters and yield.

Data from SAB agronomy trials (B. Erasmus, 2015).





Application instructions:

Crop	Method	Dose rate
Row crops (maize, wheat, etc.)	Foliar spray or through irrigation	0.5 L/ha to a maximum of 5 L/ha
Veg and small fruit (e.g. berries)	Foliar spray or through irrigation	depending on the crop.
Tree crops and vines	Foliar spray or through irrigation	Please refer to the registered label for further details.
Nurseries and hydroponics	Through irrigation water	

Available in packs: 100 ml, 1 L, 5 L, 20 L and 1000 L

- $AgriSil\ K50^{\circ}$ is **highly Alkali** (pH>11) and as such can cause compatibility problems related to this high alkalinity
- Buffering agents Not all buffering agents are compatible with $AgriSil\ K50^{\circ}$. Check for compatibility before making large tank mixes
- Silica salts in general are highly reactive. Avoid mixing with products containing salts of magnesium, calcium, zinc and aluminum
- Always conduct a jar test before mixing product or consult your distributor

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