PhytoGreen[®]-Silicon Fertilisers

PK-FERTILISER LIQUID 5-13 with silico/ Plant adjuvant

Composition:

PhytoGreen®-Silicon: 7% SiO₂ (94 g/l water soluble silicon dioxide), 5% P_2O_5 (67 g/l water soluble phosphate), 13% K₂O (174 g/l water soluble potassium oxide) complexed with carboxylic acids; with 3% humic + fulvic acids

PhytoGreen®-Bio-Silicon: Suspension with plant available silicon made out of micronized vulcanic stone meal

Mode of action and advantages:

Silicon deposits within the cells and hardens the leaves

Recommendations for use and application rates:

- Enhance tolerance against abiotic stress situations (drought and heat), rises mechanical resistance to insect bites and fungus penetration
- For thicker, more stable stalks in cereals and high pod resistance in rapeseed

2. 32 x	
Foliar application:	PhytoGreen®-Silicon/ Bio-Silicon can be applied in all cultures, whereby foliar applica-
	tion guarantees highest efficacy. 1-3 treatments with 1 I PhytoGreen®-Bio-Silicon or 2 I
1.0	PhytoGreen®-Silicon/ha from beginning of vegetation are recommended, winter cultures
	should receive the first treatment in autumn.
Soil application (with	PhytoGreen [®] -Silicon/ Bio-Silicon can be used for all cultures. Several treatments with
irrigation systems)	5-10.1/ha from beginning of vegetation are recommended

A list of some plant diseases that have had their intensities reduced by silicon application is summarized in the following table (according to Rodrigues, F. A. & Datnoff, L.D. (2015); Silicon and Plant diseases. Springer-Verlag):

Crop	Diseases	
Barley	Black point, Powdery mildew	
Bean	Anthracnose, Angular leaf spot	
Corn	Pythium root and Stalk rot, Corn smut	
Cucumber	Powdery mildew, Anthracnose, Leaf spot, Crown and Root rot, Grey mold rot, Black rot, Fusarium wilt	
Lettuce	Downy Mildew, Fusarium wilt	
Melon	Powdery mildew, Fusarium root rot, Alternaria	
Rice	Blast, Brown spot, Sheat blight, Leaf scald, Stem rot, Root knod nematodes, Grain discoloration	
Rye	Powdery mildew	
Strawberries	Powdery mildew, Anthracnose	
Soybean	Rust, Phytophtora root rot, Stem cancer	
Tomato	Fusarium crown and root rot, Pythium root rot, Bacterial wilt	
Wheat	Powdery mildew; Septoria leaf and Spot blotch, Leaf blast, Eyespot, Bacterial leaf streak, Foot rot	

Technical details:

PhytoGreen®-Silicon: Density: 1,25 kg/l; pH = 12 **PhytoGreen®-Bio-Silicon:** Density: 1,3 kg/l; pH ca. 8

Pack sizes:

1 | • 10 | • 200 | • 1000 | More pack sizes upon request. Field trial results in winter barley 2018-2020





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