



Silic

Silicon Fertilizers

ON



IMPORTED FROM EU



6 Keys to achieve growth and yield

Silic^{on} increases



- 1 Resistance to disease and pest.
- 2 Cell structure.
- 3 Photosynthetic Activity.
- 4 Uptake of Nutrients
- 5 Resistance to Environmental Stresses.
- 6 Post Harvest Life.

6 Keys to achieve growth and yield

Silic^{on} increases

1 Resistance to disease and pest:

Si deposition in the epidermis tissues provides a physical barrier to pathogens and insects, allowing for a reduction in the frequency of chemical applications.

2 Cell structure:

Si accumulated on the epidermal tissues increases the mechanical stability of the plant. Reduces the incident of lodging.

3 Photosynthetic Activity:

The improved structure produces stronger stems with more erect leaves, increasing its ability to capture light.



4 Uptake of Nutrients

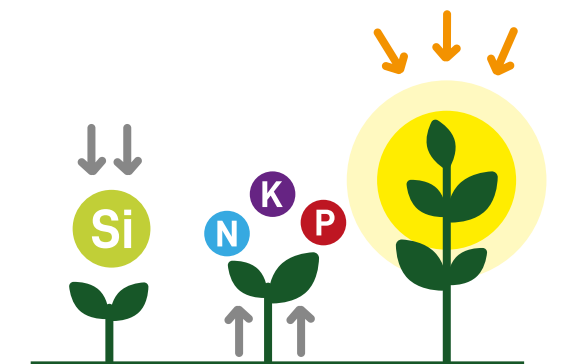
Particularly Nitrogen, Phosphorous, Potassium and Micronutrients.

5 Resistance to Environmental Stresses.

- **Reduced drought and heat stress.** The deposition of Si in the plant tissues reduces transpiration rates.
- **Reduce salt stress** by inhibiting Sodium uptake.
- **Alleviate toxicity of heavy metals:** Iron, Manganese, Cadmium, Aluminium, and Zinc by regulating plant uptake

6 Post Harvest Life.

Si can associate with cell wall proteins where it might exert an active production of defence compounds.



Product range

Silic^{ON} Aryn



COMPOSITION	%w/v
Silicon (SiO ₂)	26,4
Potassium (K ₂ O)	10,2
Free Amino Acids	3,0

Silic^{ON} Ca Flow



COMPOSITION	%w/v
Silicon (SiO ₂)	24,0
Calcium (Ca)	15,0
Density	1,40
pH	7-8

Silic^{ON} Ca Mg Flow



COMPOSITION	%w/v
Silicon (SiO ₂)	27,00
Calcium (CaO)	23,50
Magnesium (MgO)	8,25
Density	1,50
pH	5-6

Silic^{ON} Fe



COMPOSITION	%w/v
Silicon (SiO ₂)	17,5
Iron (Fe)	3,0

8

Group of crops in which Silic^{ON} works

Cotton



Sugar cane



Cereals



Banana



Vegetables

Chili
Cucurbit
Onion
Tomato
Strawberry



Fruit trees

Avocado
Pomegranate
Date Palm











Turf



Potato

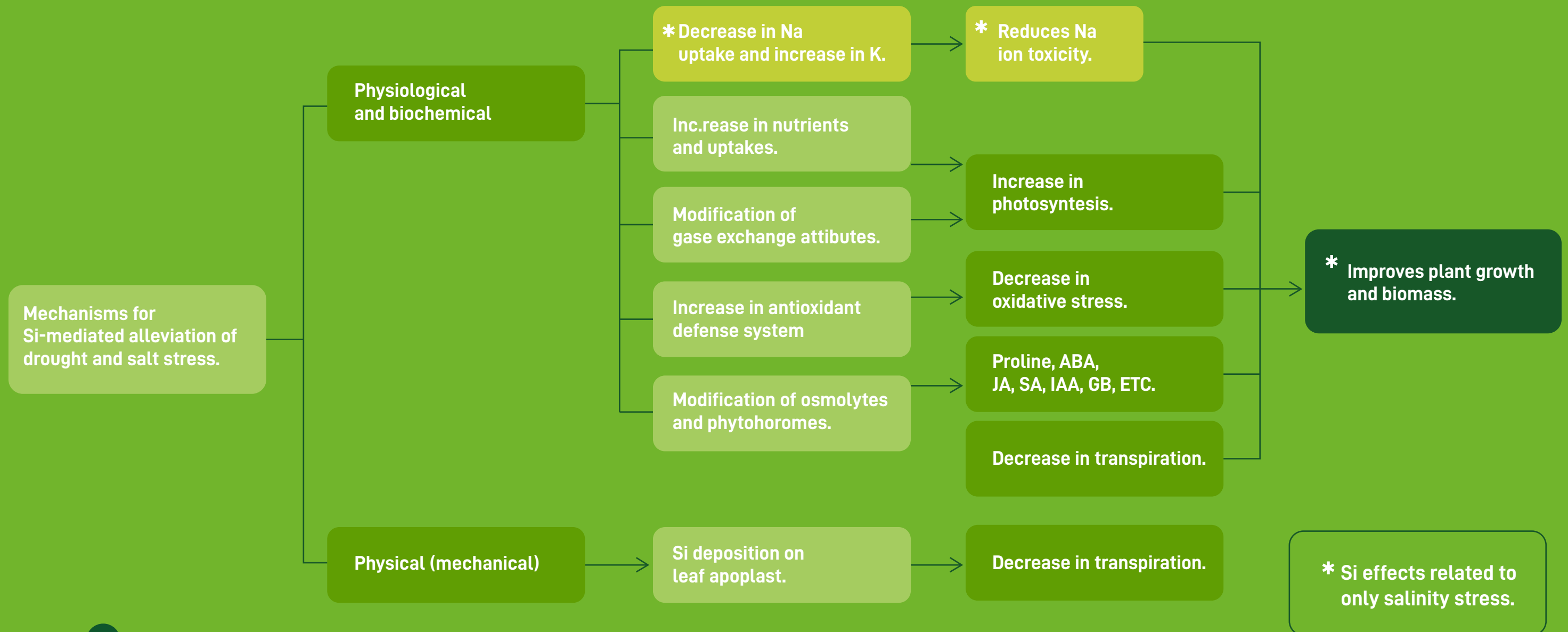
Silic^{ON}
Silicon Fertilizers

Silic^{on} increases the resistance of the plants against diseases

Crop	Disease	Reference	Crop	Disease	Reference
 Rice	Sheath Blight Neck blast Leaf blast Brown spot Leaf scald Stem rot	Rodrigues et al (2001) Datnoff et al (1991) Seebold et al (2001) Datnoff et al (1991) Seebold et al (2000) Seebold et al (2000)	 Barley	Powdery mildew	Jiang et al (1989)
 Wheat	Powdery mildew	Menzies et al (2002)	 Cowpea	Rust	Heath & Stumpf (1986)
 Cucumber	Powdery mildew	Menzies et al (1991)	 Grass	Leaf spot	Brecht et la (2004)
 Sugarcane	Sugarcane ring spot	Matichenchov & Calvert (2002)	 Rose	Podosphaera pannosa	Shetty et la (2004)

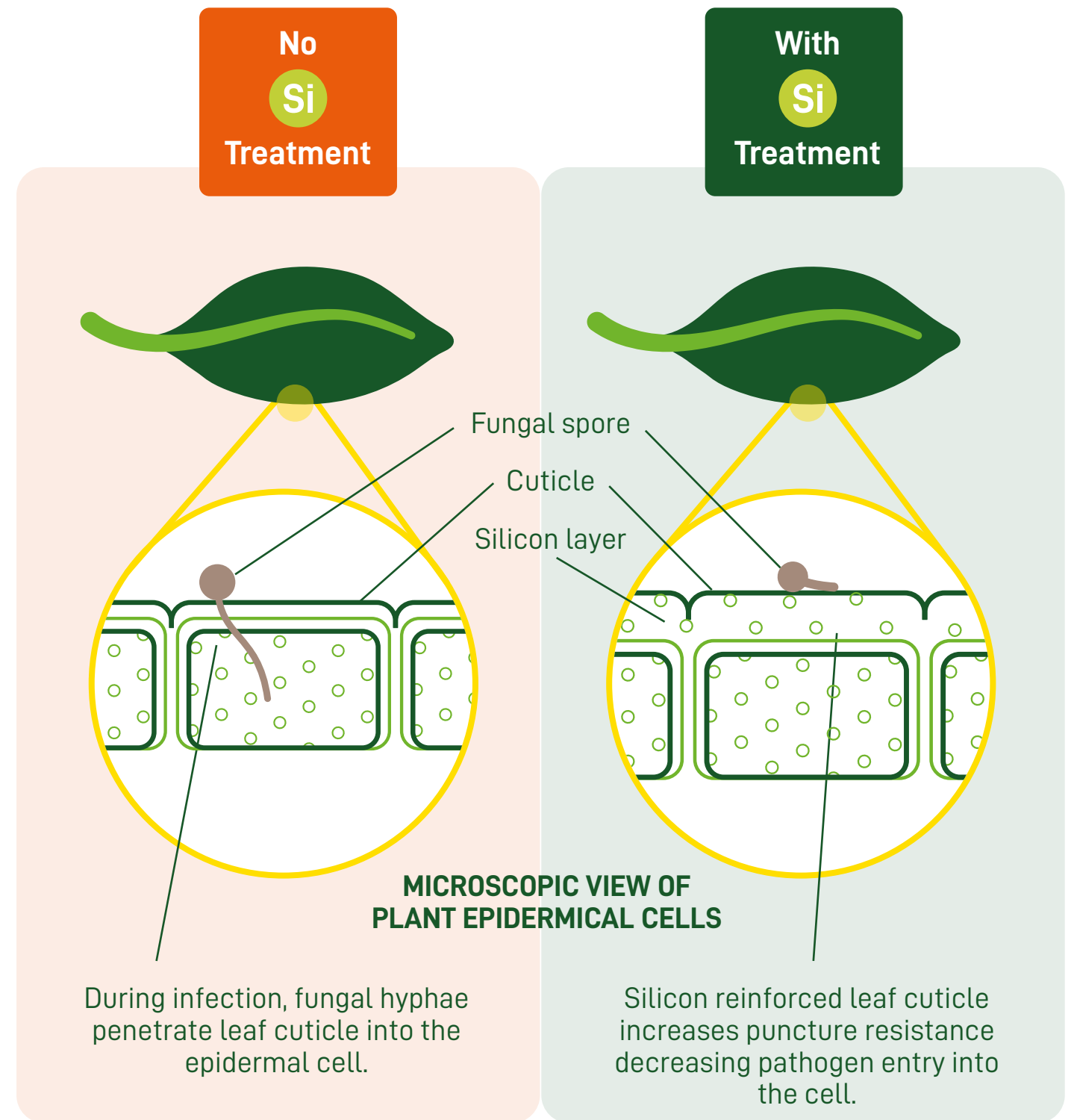
Mechanisms for Si-mediated alleviation of drought and salt stress in plants

Rizwan M. et al (2015)



Mode of action

Typical action of a Silicon treatment





ASPEAGRO GLOBAL S.L.
(Alicante) Spain

✉ export@aspeagro.com

gm@aspeagro.com

🌐 www.aspeagro.com

Silic **ON**