GLYCINE FERTILIZERS

chelates

contains amino acids

Nature enhanced

ARKOP

AminoPower Chelates®

Zn | Mn | Cu | Fe

AminoPower Chelates are organic forms of minerals based on glycine, allowing for balanced nutrition of plants and interventional supplementation in case of mineral deficits.

AminoPower Chelates are perfectly tailored for the nutrition of all crops and can be applied at every stage of growth.

AminoPower Chelates

- High content of chelated microelements
- Highest bioavailability
- Perfect mixability
- Stability over a broad range of pH
- Proprietary state-of-art technology
- EU-manufactured product
- High quality confirmed by international laboratories

Why AminoPower Chelates?

Effectiveness

Glycine Chelates have been proven as the most effective, stable and cost-effective products applicable to the supplementation of plant with micronutrients. The use of Amino Power Chelates ensures the efficient nutrient uptake in comparison with soil application of conventional inorganic fertilizers.

Ecology

AminoPower Chelates based on glycine are considered as safe fertilizers which do not cause any side effects to the natural environment in order to synthetic chelating agents.

High availability

Amino Power Chelates are characterized by nearly 100% availability which ensures that the whole dose of the supplied microelement is effectively absorbed by a plant. The Glycine as the organic carrier is a natural amino acid with the highest bioavailability.

Consequences of deficiencies in plant organism

Zinc (Zn) deficiency

- speckled chlorosis
- wilting of root tips wilting
- disorders in generative development of flowers, fruits and seeds
- inhibition of intermodal elongation rate
- reduction in the size of leaves (small and narrow leaves)
- decreased crop yield and its quality

Manganese (Mn) deficiency

- speckled chlorosis, continued yellowing and drying of the leaves
- inhibition of plant growth and biomass accumulation

Copper (Cu) deficiency

- chlorotic and rounded tips of leaves
- inhibition of plant growth and biomass accumulation
- wilting a plant shoot

Iron (Fe) deficiency

- rusty, necrotic spots on leaves
- inhibition of plant growth and flowering

Magnesium (Mg) deficiency

- rusty, brown spots on middle-aged leaves, intensifying during the microelement deficits

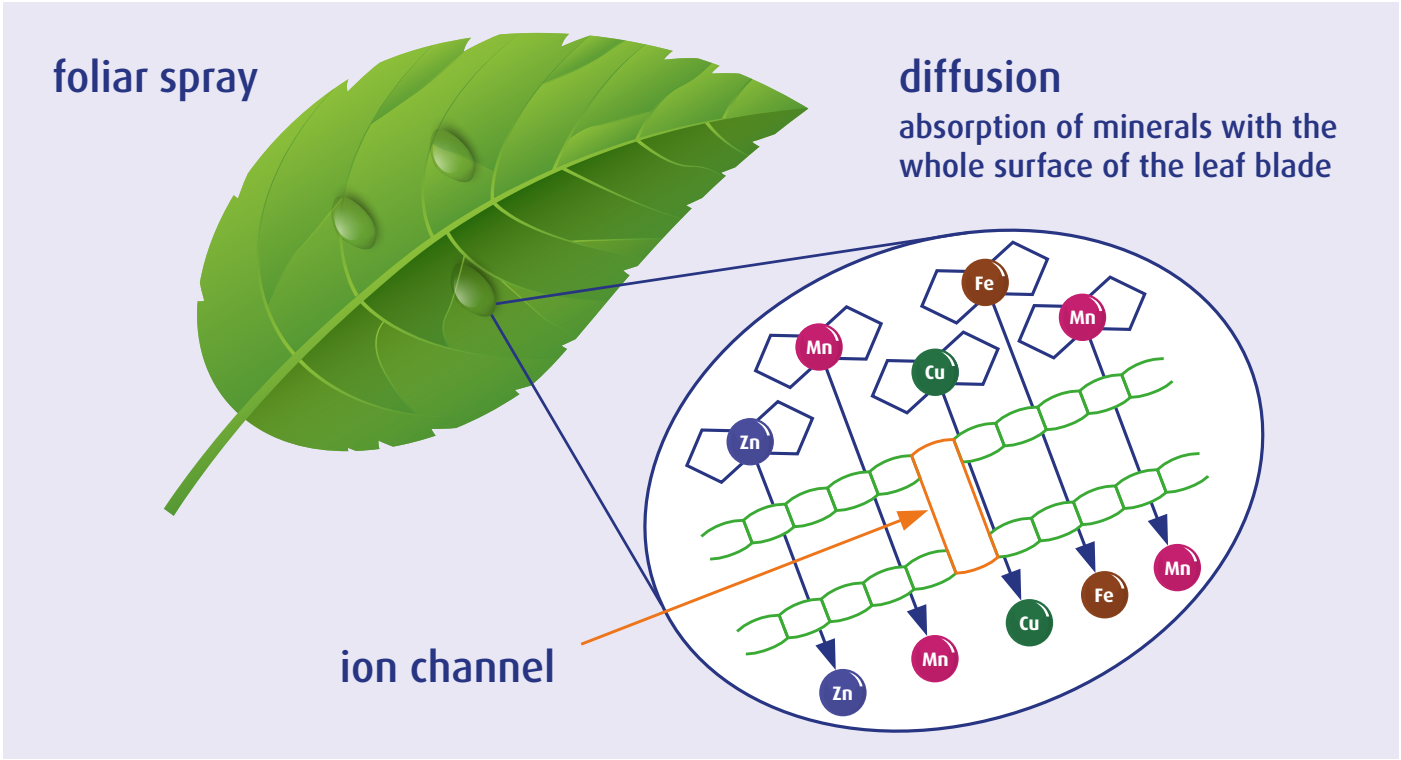
Calcium (Ca) deficiency

- disfunctions in vascular system of the plant leading to weakening of the root system
- yellow and deformed leaves

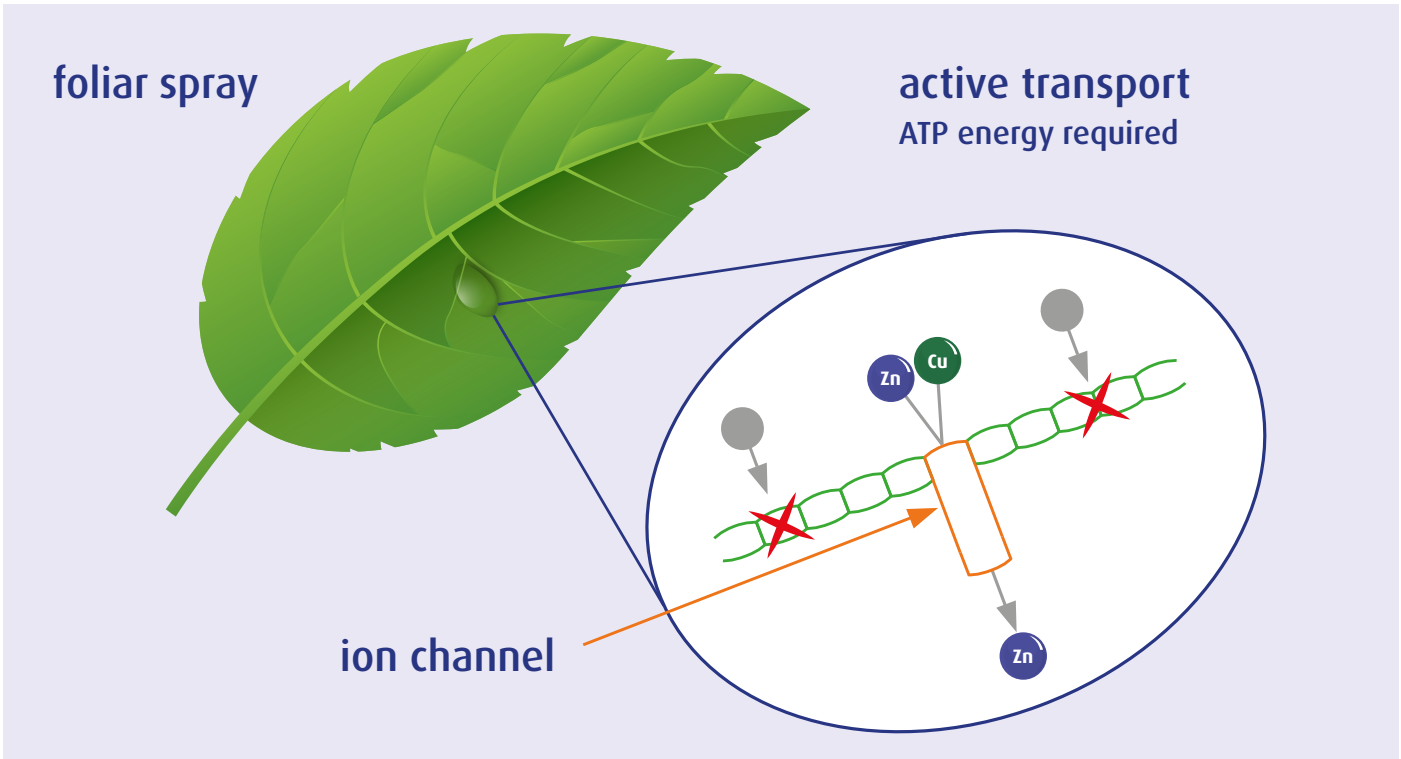
	AminoPower® Zn	AminoPower® Mn	AminoPower® Cu	AminoPower® Fe
Element	Zinc (Zn) - 25%	Manganese (Mn) - 22%	Copper (Cu) - 24%	Iron (Fe) - 20%

MODE OF ACTION

AminoPower Chelates



Conventional non organic fertilizer



The uptake of minerals is controlled by a specific ion channels located in the epidermis of the root and leaves of a plant. The functioning of these channels is responsible for a selective permeability of the macro- and microelements necessary for the plant's metabolism. Organic forms of micronutrients do not have an electric charge and thus, are able to freely cross biological membranes by diffusion to quickly fill a deficiency in a specific biological compartment.

DOSAGE

AminoPower Zn

Plants	Dosage [kg/ha]	Amount of working solution
Cereal	0,65-0,85	200-300
Potatoes	0,95	
Maize	0,4-0,6	
Beetroot	0,3-0,5	
Rapeseed	0,75	
Legumes	0,3-0,75	
Vegetables	0,6-0,9	400-600
Fruit trees and bushes	0,3-0,6	700-1000
Ornamental plants	0,05-0,095	100 (5-9, 5g for 10l water)

AminoPower Fe

Plants	Dosage [kg/ha]	Amount of working solution
Cereal	0,4-1,2	200-500
Potatoes	0,1-0,6	200-300
Maize	0,2-0,7	
Beetroot	0,35-0,5	
Rapeseed	0,35	
Legumes	0,2-0,65	
Vegetables	0,8-1,2	400-600
Fruit trees and bushes	0,8-1,2	700-1000
Ornamental plants	0,03-0,09	100 (3-9, 5g for 10l water)

Amino Power Mn

Plants	Dosage [kg/ha]	Amount of working solution
Cereal	0,65-0,8	200-300
Potatoes	0,2-1,0	
Maize	0,2-0,8	
Beetroot	0,65-0,8	
Rapeseed	0,65	
Legumes	0,2-0,65	
Vegetables	0,8-1,2	400-600
Fruit trees and bushes	0,8-1,2	700-1000
Ornamental plants	0,04-0,09	100 (4-9, 5g for 10l water)

Amino Power Cu

Plants	Dosage [kg/ha]	Amount of working solution
Cereal	0,03-0,16	200-300
Potatoes	0,4	
Maize	0,1-0,4	
Beetroot	0,1-0,4	
Rapeseed	0,1-0,4	
Legumes	0,2-0,5	
Vegetables	0,95-1,4	400-600
Fruit trees and bushes	0,95-1,5	700-1000
Ornamental plants	0,04-0,1	100 (4-9, 5g for 10l water)

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