Nitrophoska® Foliar

Water Soluble Fertilizer for Foliar Application for Optimal Crop Performance

- Highly efficient combination of macro and micro elements

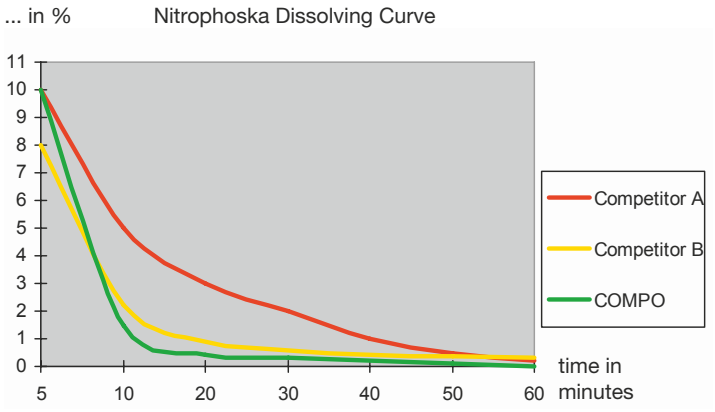
- Fully chelated trace elements
- Fast and completely water soluble

- Compatible with common pesticides
- Availability of farm size adapted packaging

German Quality Fertilizer

Nitrophoska® Foliar

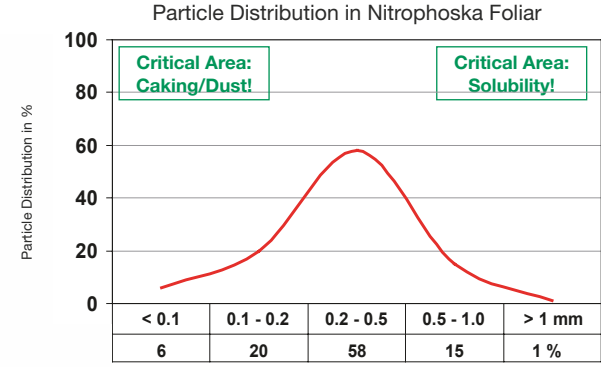
High Solubility of Product



- ⇨ 99% of the products dissolves within 10 minutes
- ⇨ Superior dissolving speed and efficiency
- ⇨ Virtually no residues

Product Quality

- ⇨ Produced according to ISO 9001
- ⇨ Free of Chlorine (no use of KCL)
- ⇨ Metallic micro-nutrients fully EDTA-chelated
- ⇨ Colour coded for better identification



- ⇨ Better quality than standard products due to specific grinding technique and high quality raw materials
- ⇨ Homogeneous particle size
- ⇨ No product segregation
- ⇨ Reduced caking risk and dust

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The Importance of Availability

According to *Liebig's Law of the Minimum*, any essential plant nutrient which is not in sufficient supply limits crop yield.

Law of Minimum:

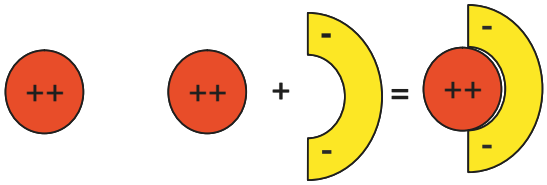
The element which is in shortest supply (in this case K) limits the yield.

(J. v. Liebig 1803-1873)

Principle of Chelatisation

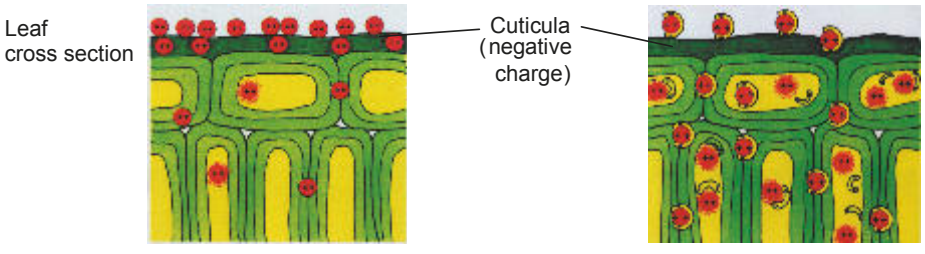
Unchelated
Ions of metallic micro nutrients are positively charged
Mn^{++}, $Fe^{++/+++}$, Cu^{++}, Zn^{++}
(Sulphates, Oxides and others)

Chelated
The "Chelator" (from Greek 'Chelon' = crab claw) binds the metallic ion by enclosing it. The ion is now a neutral molecule and therefore protected from precipitation due to environmental exposure or uncertainties (e. g. high pH)



Advantages Chelatisation:

- Rapid leaf penetration of chelated nutrients
- Highly efficient nutrient uptake
- Full utilization in plant metabolism
- Enhanced translocation to place of demand



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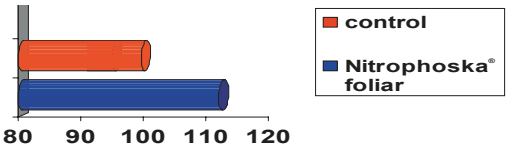
General Benefits

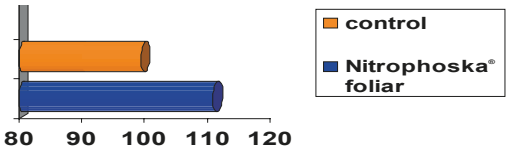
- ⇨ Maximum exploitation of yield potential
- ⇨ Crop strengthening under stress situations (pests & diseases, extreme climatic conditions etc.)
- ⇨ Most efficient nutrient application under adverse soil conditions (high ph, salinity, low nutrient content, light soils etc.)
- ⇨ Optimal supplement to traditional soil fertilization

Trial Results (yield increase in %):

Rice: (Source: BASF Colombia)
4 applications of
Nitrophoska Foliar 2 l/ha



Potatoes: (Source: Schmitt Germany 1973)
6 trials



Wheat: (Source: BASF Germany)
3 applications of Nitrophoska
Foliar 3,5 l/ha

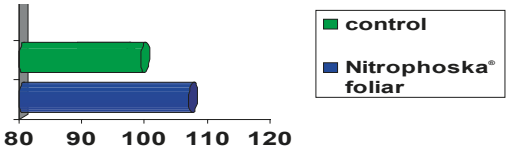
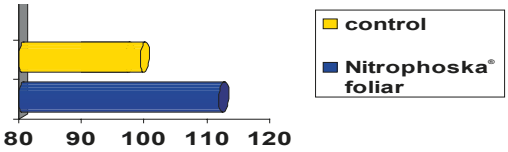


Table grapes: (Source: BASF Brasil)
6 applications of Nitrophoska
Foliar 3 l/ha



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Product	Total Nitrogen	Ammonium (NH_4-N)	Nitrate (NO_3-N)	Urea (NH_2-N)	Phosphate (P_2O_5)	Potassium (K_2O)	Sulphur	Magnesium (MgO)	Boron	Copper	Iron	Manganese	Molybdenum	Zinc
15+30+15	15	6,0	0,0	9	30	15	4	0,94	0,03	0,03	0,08	0,08	0,002	0,03
20+19+19	20	3,8	5,0	11,2	19	19	0	0,57	0,03	0,01	0,10	0,10	0,003	0,03
30+10+10	30	2,0	0	28	10	10	4	0,55	0,01	0,01	0,05	0,05	0,001	0,01
25+10+17	25	3,0	5,0	17	10	17	4	0,61	0,01	0,01	0,05	0,05	0,001	0,01
8+12+24	8	5,4	2,6	0	12	24	12	4	0,01	0,01	0,05	0,05	0,001	0,01
20+5+10	20	13	7	0	5	10	10	2	0,01	0,01	0,05	0,05	0,001	0,01
14+6+24	14	6,3	7,7	0	6	24	7	3	0,01	0,01	0,05	0,05	0,001	0,01
18+18+18	18	8,1	9,9	0	18	18	1	0,94	0,01	0,01	0,05	0,05	0,001	0,01
7+12+40	7	0,01	6,99	0	12	40	4	2	0,01	0,01	0,05	0,05	0,001	0,01
15+5+30	15	4,8	10,2	0	5	30	4	1,3	0,01	0,01	0,05	0,05	0,001	0,01
13+40+13	13	8,70	4,30	0	40	13	0	0,11	0,01	0,01	0,05	0,05	0,001	0,01

Nitrophoska® Foliar

Product	Composition	Characteristics	Packaging	Use
Nitrophoska® Foliar	15+30+15 (+0,9MgO+4S+TE) 	Soluble NPK Fertilizer - High P content - Low chlorine - incl. B, Cu, Fe, Mn, Mo, Zn - EDTA chelated trace elements	25 kg bag Pallet size: 40/42 bags à 25 kg	Concentration depending on specific crop and soil demand. Foliar Appl.: 0,5 – 2,0 ‰ Fertigation: 0,5 – 3,0 ‰
Nitrophoska® Foliar	20+19+19 (+0,5MgO+0,8S+TE) 	Soluble NPK Fertilizer - Balanced nutrient ratio - Low chlorine - incl. B, Cu, Fe, Mn, Mo, Zn - EDTA chelated trace elements	25 kg bag Pallet size: 40/42 bags à 25 kg	Concentration depending on specific crop and soil demand. Foliar Appl.: 0,5 – 2,0 ‰ Fertigation: 0,5 – 3,0 ‰
Nitrophoska® Foliar	30+10+10 (+0,55MgO+3,9S+TE) 	Soluble NPK Fertilizer - High N content - Low chlorine - incl. B, Cu, Fe, Mn, Mo, Zn - EDTA chelated trace elements	25 kg bag Pallet size: 40/42 bags à 25 kg	Concentration depending on specific crop and soil demand. Foliar Appl.: 0,5 – 2,0 ‰ Fertigation: 0,5 – 3,0 ‰
Nitrophoska® Foliar	25+10+17 (+0,6MgO+4S+TE) 	Soluble NPK Fertilizer - Low chlorine - incl. B, Cu, Fe, Mn, Mo, Zn - EDTA chelated trace elements	25 kg bag Pallet size: 40/42 bags à 25 kg	Concentration depending on specific crop and soil demand. Foliar Appl.: 0,5 – 2,0 ‰ Fertigation: 0,5 – 3,0 ‰

Further Products:

Nitrophoska® Foliar 8+12+24 (+4MgO+12S+TE)
Nitrophoska® Foliar 20+5+10 (+2MgO+10S+TE)
Nitrophoska® Foliar 14+6+24 (+3MgO+7S+TE)
Nitrophoska® Foliar 18+18+18 (+1MgO+1S+TE)
Nitrophoska® Foliar 7+12+40 (+2MgO+4S+TE)
Nitrophoska® Foliar 15+5+30 (+1,3MgO+4S+TE)
Nitrophoska® Foliar 13+40+13 (+TE)

German precision in plant nutrition - proven by BASF

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