

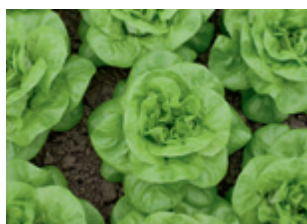


Nitrophoska[®] Solub/Hakaphos[®]

Water Soluble Fertilizer for Fertigation



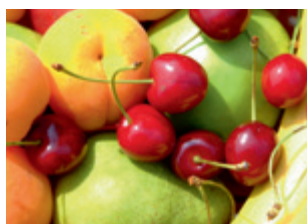
- Fast and completely water soluble



- Homogeneous high quality products

- Chelated micro-nutrients

- Labour saving ready-to-use products



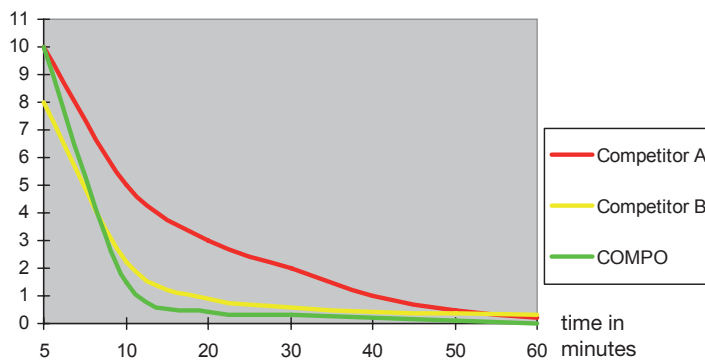
- Wide product range for optimal crop management



Nitrophoska[®] Solub/Hakaphos[®]

High Solubility of Product

... in % Nitrophoska Dissolving Curve



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

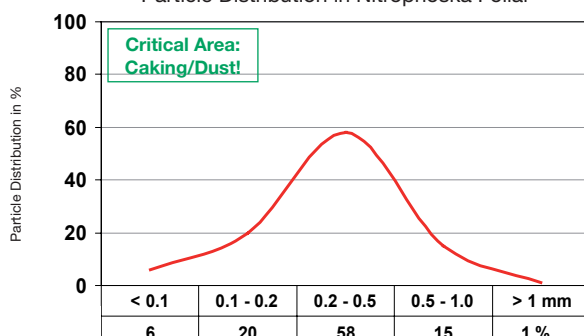
Product Quality



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



Particle Distribution in Nitrophoska Foliar



- ⇒ 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



Nitrophoska® Solub/Hakaphos®

Best Efficiency for Crop Fertilization

- High quality of raw materials – Nitrogen, Phosphate and Potassium are fully plant available
- Nitrogen as Ammonium and Nitrate. The products contain no Urea-N which is inefficient in fertigation systems
- Fully chelated trace elements ensure a better plant uptake and a healthy plant development
- Efficient supply of fully water soluble Magnesium and Sulphur
- Available formulas for all stages of crop development
- Very low salinity

Safe and Single Use covering all Nutrients

- Ready-to-use NPK formulas do not require blending of single and binary salts
- Quick and easy dissolving of all formulas
- Safe application due to easy identification by colour
- Sophisticated 25 kg packaging

Preparing the Solution

- ✓ Prepare a solution by dissolving 15 kg soluble salt per 100 l water (if using water > T = 18 °C use 20-25 kg, if water < 10-12 °C use 10 kg)
- ✓ Regulate the dosage for the desired final concentration (normally between 0,5 – 3,0 g per liter)
- ✓ Solution shall be stable for approx. one week
- ✓ Use plain water before and approx. 10-15 min. after fertilizer application



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Conductivity at 25 °C (mS/cm)

Product % Con- centration	16+8+22	15+10+15	8+12+24	20+5+10	14+6+24	12+32+14	20+5+5	7+12+40	17+5+19	15+5+30	13+40+13	18+18+18	8+12+24
0,5	0,66	0,71	0,73	0,81	0,72	0,55	0,85	0,66	0,74	0,68	0,60	0,65	0,73
1	1,30	1,37	1,35	1,57	1,38	1,06	1,65	1,27	1,44	1,33	1,18	1,22	1,35
1,5	1,91	1,98	1,98	2,29	2,03	1,53	2,41	1,86	2,12	1,93	1,70	1,77	1,98
2	2,47	2,58	2,60	3,00	2,65	2,00	3,09	2,39	2,75	2,56	2,23	2,34	2,60
2,5	3,08	3,16	3,26	3,67	3,28	2,46	3,96	2,97	3,36	3,18	2,72	2,93	3,26
3	3,62	3,82	3,81	4,35	3,85	2,91	4,63	3,53	4,02	3,70	3,32	3,37	3,81
3,5	4,14	4,45	4,38	5,00	4,41	3,38	5,23	4,03	4,51	4,34	3,80	4,02	4,38
4	4,72	5,07	4,91	5,67	4,96	3,78	5,91	4,55	5,21	4,91	4,33	4,62	4,91
4,5	5,22	5,67	5,42	6,27	5,57	4,22	6,39	5,06	5,79	5,41	4,86	5,11	5,42

Concentration and pH-Value

Product % Con- centration	16+8+22	15+10+15	8+12+24	20+5+10	14+6+24	12+32+14	20+5+5	7+12+40	17+5+19	15+5+30	13+40+13	18+18+18	8+12+24
0,2	5,16	4,98	3,82	5,02	5,11	4,73	5,05	3,76	5,14	4,69	3,82	0,65	0,73
10	4,02	4,16	3,02	4,18	4,23	3,94	4,23	2,95	4,31	4,09	3,02	1,22	1,35
17,5	3,76	4,00	2,95	4,02	4,02	3,77	4,07	2,91	4,13	3,92	2,95	1,77	1,98







Nitrophoska® Solub/Hakaphos®

Guaranteed Nutrient Contents %

Product	Total Nitrogen	Ammonium (NH ₄ -N)	Nitrate (NO ₃ -N)	Phosphate (P ₂ O ₅)	Potassium (K ₂ O)	Sulphur	Magnesium (MgO)	Boron	Copper	Iron	Manganese	Molybdenum	Zinc
16-8-22	16	5,6	10,4	8	22	3	3	0,03	0,002	0,15	0,05	0,005	0,01
15-10-15	15	11	4	10	15	12	2	0,01	0,01	0,05	0,05	0,001	0,01
8-12-24	8	5,4	2,6	12	24	12	4	0,01	0,01	0,05	0,05	0,001	0,01
20-5-10	20	13	7	5	10	10	2	0,01	0,01	0,05	0,05	0,001	0,01
14-6-24	14	6,30	7,70	6	24	7	3	0,01	0,01	0,05	0,05	0,001	0,01
12-32-14	12	7,4	4,6	32	14	3	3	0,01	0,01	0,05	0,05	0,001	0,01
20-5-5	20	16	4	5	5	16	1,7	0,01	0,01	0,05	0,05	0,001	0,01
7-12-40	7	0,01	6,99	12	40	4	2	0,01	0,01	0,05	0,05	0,001	0,01
17-5-19	17	9,80	7,20	5	19	9	1,4	0,01	0,01	0,05	0,05	0,001	0,01
15-5-30	15	4,8	10,2	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	40	13	0	0,11	0,01	0,01	0,05	0,05	0,001	0,01
18-18-18	18	8,1	9,9	18	18	1	0,94	0,01	0,01	0,05	0,05	0,001	0,01
8-12-24	8	5,4	2,6	12	24	12	4	0,01	0,01	0,05	0,05	0,001	0,01



Nitrophoska® Solub/Hakaphos®

Product	Composition	Characteristics	Packaging	Use
Nitrophoska® Solub/ Hakaphos®	8 + 12 + 24 (+4MgO+12S+TE) 	Soluble NPK Fertilizer - High P and K content - Low chlorine - incl. B, Mo, Cu, Fe, Mn, Zn - EDTA chelated trace elements - High MgO	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 ‰
Nitrophoska® Solub/ Hakaphos®	20 + 5 + 10 (+2MgO+10S+TE) 	Soluble NPK Fertilizer - High N content for vegetative grow - Low chlorine - incl. B, Mo, Cu, Fe, Mn, 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 ‰
Nitrophoska® Solub/ Hakaphos®	15 + 10 + 15 (+2MgO+12S+TE) 	Soluble NPK Fertilizer - Low chlorine - incl. B, Mo, Cu, Fe, Mn, 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 ‰
Nitrophoska® Solub/ Hakaphos®	7 + 12 + 40 (+2MgO+4S+TE) 	Soluble NPK Fertilizer - High K content for ripening and crop quality - Low chlorine - incl. B, Mo, Cu, Fe, Mn, 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 ‰

Further Products:

Nitrophoska® Solub 20 + 5 + 5 (+1,7MgO+16S+TE)
 Nitrophoska® Solub 18 + 18 + 18 (+1MgO+1S+TE)
 Nitrophoska® Solub 13 + 40 + 13 (+TE)
 Nitrophoska® Solub 15 + 5 + 30 (+1,3MgO+4S+TE)
 Nitrophoska® Solub 17 + 5 + 19 (+1,4MgO+9S+TE)
 Nitrophoska® Solub 12 + 32 + 14 (+3MgO+3S+TE)
 Nitrophoska® Solub 16 + 8 + 22 (+3MgO+3S+TE)

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