

EXPERTS FOR GROWTH



Hakaphos[®]
Basaplant[®]
Water soluble fertilizers for fertigation



Hakaphos®/Basaplant®

High solubility of product

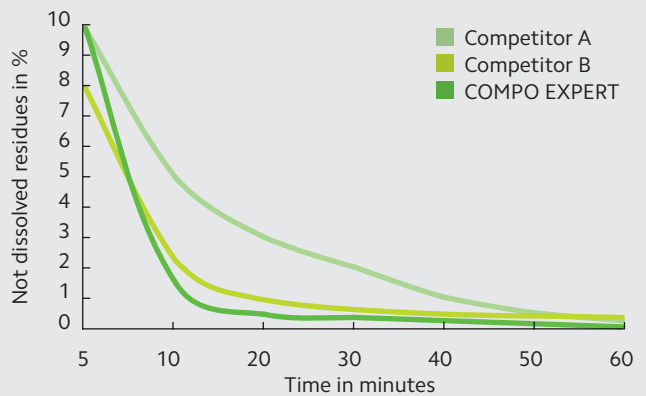
- Industry leading quality and solubility
- Over 99% product dissolution within 10 minutes
- Virtually residue free for efficient and convenient application



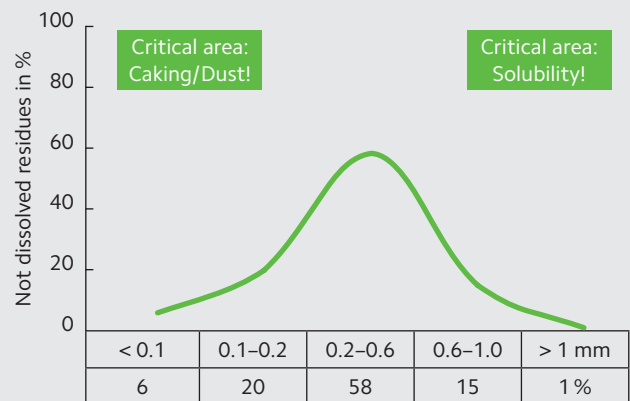
Product quality

- Produced according to ISO 9001
- Free of chlorine (no use of KCL)
- Metallic micro-nutrients fully EDTA-chelated
- Colour coded for easy identification
- Superior quality due to special grinding technique and high quality raw materials
- Homogeneous particle size
- No product segregation
- Minimal dust and caking risk

Hakaphos®/Basaplant® dissolving curve



Particle distribution in Hakaphos®/Basaplant®



Highest efficiency for crop fertilization

- Use of highest quality raw materials; N,P and K sources are completely water-soluble and therefore 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 superior plant uptake and healthy crop development.
- Efficient supply of fully water soluble Magnesium and Sulphur.
- Wide range of useful formulas for all crops and growth stages.
- Very low salinity.

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 using water T < 10–12 °C use 10 kg).
- ✓ Regulate the dosage for the desired final concentration (normally between 0.5–3.0 g per liter).
- ✓ The prepared solution should remain stable for approx. 1 week.
- ✓ It is recommended to run pure water through the system prior to, and for 10–15 minutes following fertigation.

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.
- Highest quality, strong 25 kg packaging.





Conductivity at 25 °C (mS/cm)

	16-8-22	15-10-15	8-12-24	20-5-10	12-32-14	20-5-5	7-12-40	17-5-19	15-5-30	13-40-13
0.5	0.66	0.71	0.73	0.81	0.55	0.85	0.66	0.74	0.68	0.60
1	1.30	1.37	1.35	1.57	1.06	1.65	1.27	1.44	1.33	1.18
1.5	1.91	1.98	1.98	2.29	1.53	2.41	1.86	2.12	1.93	1.70
2	2.47	2.58	2.60	3.00	2.00	3.09	2.39	2.75	2.56	2.23
2.5	3.08	3.16	3.26	3.67	2.46	3.96	2.97	3.36	3.18	2.72
3	3.62	3.82	3.81	4.35	2.91	4.63	3.53	4.02	3.70	3.32
3.5	4.14	4.45	4.38	5.00	3.38	5.23	4.03	4.51	4.34	3.80
4	4.72	5.07	4.91	5.67	3.78	5.91	4.55	5.21	4.91	4.33
4.5	5.22	5.67	5.42	6.27	4.22	6.39	5.06	5.79	5.41	4.86

pH values

	16-8-22	15-10-15	8-12-24	20-5-10	12-32-14	20-5-5	7-12-40	17-5-19	15-5-30	13-40-13
0.2	5.16	4.98	3.82	5.02	4.73	5.05	3.76	5.14	4.69	3.82
10	4.02	4.16	3.02	4.18	3.94	4.23	2.95	4.31	4.09	3.02
17.5	3.76	4.00	2.95	4.02	3.77	4.07	2.91	4.13	3.92	2.95



Guaranteed nutrient contents %

	Total Nitrogen	Ammonium (NH ₄ -N)	Nitrate (NO ₃ -N)	Phosphate (P ₂ O ₅)	Potassium (K ₂ O)	Magnesium (MgO)	Sulphur trioxide (SO ₃)	Boron	Copper	Iron	Manganese	Molybdenum	Zinc
24-6-12	24	10.8	13.2	6	12	2	4	0.01	0.02	0.1	0.05	0.001	0.02
20-5-10	20	13	7	5	10	2	27	0.01	0.02	0.05	0.05	0.001	0.02
20-5-5	20	16	4	5	5	-	40	0.01	0.02	0.05	0.05	0.001	0.02
18-18-18	18	8.1	9.9	18	18	-	-	0.01	0.02	0.05	0.05	0.001	0.02
18-8-18	18	8	10	8	18	3	6.5	0.01	0.02	0.1	0.05	0.001	0.02
17-5-19	17	9.8	7.2	5	19	-	23	0.01	0.02	0.05	0.05	0.001	0.02
16-16-16	16	10	6	16	16	-	18.3	0.01	0.02	0.04	0.04	0.001	0.02
16-8-22	16	6	10	8	22	3	12.5	0.03	0.02	0.15	0.05	0.005	0.02
15-10-15	15	11	4	10	15	2	30	0.01	0.02	0.05	0.05	0.001	0.02
15-5-30	15	4.8	10.2	5	30	2	10	0.01	0.02	0.05	0.05	0.001	0.02
14-5-30	14	6	8	5	30	-	17.5	0.01	0.02	0.05	0.05	0.001	0.02
13-40-13	13	8.6	4.4	40	13	-	-	0.01	0.02	0.05	0.05	0.001	0.02
12-32-14	12	7.5	4.5	32	14	3	7.5	0.01	0.02	0.05	0.05	0.001	0.02
8-12-24	8	5	3	12	24	4	31	0.01	0.02	0.05	0.05	0.001	0.02
7-12-40	7	1.5	5.5	12	40	-	16.3	0.01	0.02	0.05	0.05	0.001	0.02

Hakaphos® / Basaplant® product range



Product	Composition	Characteristics	Packaging
Hakaphos® Base	7-12-40 (+16.3 SO ₃ +TE)	Soluble NPK fertilizer - High K content for ripening and crop quality - Poor in chloride - incl. B, Mo, Cu, Fe, Mn, Zn - EDTA-chelated metallic micro nutrients	Bag: 25 kg Pallet size: 48 x 25 kg
Hakaphos® Violeta	13-40-13 (+TE)	Soluble NPK fertilizer - High P content for vegetation start - Poor in chloride - incl. B, Mo, Cu, Fe, Mn, Zn - EDTA-chelated metallic micro nutrients	Bag: 25 kg Pallet size: 48 x 25 kg
Basaplant® Green	16-16-16 (+18.3 SO ₃ +TE)	Soluble NPK fertilizer - Poor in chloride - incl. B, Mo, Cu, Fe, Mn, Zn - EDTA-chelated metallic micro nutrients	Bag: 25 kg Pallet size: 48 x 25 kg
Basaplant® Orange	14-5-30 (+17.5 SO ₃ +TE)	Soluble NPK fertilizer - High N and K content - Poor in chloride - incl. B, Mo, Cu, Fe, Mn, Zn - EDTA-chelated metallic micro nutrients	Bag: 25 kg Pallet size: 48 x 25 kg

For detailed information on application data please get in touch with your local supplier.

Further products: Hakaphos®/Basaplant®

8-12-24 (+4 MgO+31 SO₃+TE)

12-32-14 (+3 MgO+7.5 SO₃+TE)

15-5-30 (+2 MgO+10 SO₃+TE)

15-10-15 (+2 MgO+30 SO₃+TE)

16-8-22 (+3 MgO+13 SO₃+TE)

17-5-19 (+23 SO₃+TE)

18-18-18 (+TE)

20-5-5 (+40 SO₃+TE)

20-5-10 (+2 MgO+27 SO₃+TE)