ADOB® NPK Foliar 20-20-20 + micro

Characteristics

ADOB® NPK Foliar 20-20-20 + micro is a multinutrient, multi-functional crystalline fertiliser. This fully water-soluble product is designed for foliar, fertigation and soilless applications to arable, vegetable, floriculture and orchard crops. It has very high concentrations of balanced nitrogen (N), phosphorus (P) and potassium (K) and is enriched with magnesium (Mg), sulphur (S) and all six micronutrients: boron (B), copper (Cu), iron (Fe), molybdenum (Mo), manganese (Mn) and zinc (Zn).

All micronutrients (except boron and molybdenum) are chelated by the modern biodegradable **IDHA** agent, while boron and molybdenum (which cannot be chelated) are present as water-soluble, inorganic components. As a result, all nutrients are readily and quickly available to all crop plants. This unique combination of essential nutrients ensures the optimal development of plants' biomass, shoots, roots, flowers and fruits.

ADOB® NPK Foliar 20-20-20 + micro also boosts plants' vigour and improves their health. It effectively prevents nutrient deficiencies, especially under occasional stressful growth conditions.

- EC fertiliser
- NPK fertiliser + micro
- wide-ranging nutrition
- **IDHA** chelated
- 100% chelation of micronutrients
- biodegradable
- fast dissolution and complete solubility
- excellent miscibility

Composition

Composition – ADOB® NPK Foliar 20-20-20 + micro

Nutrients	Symbol	Content [% w/w]	Form
Total nitrogen	N	20.0	
– nitrate nitrogen	$N\text{-}NO_3$	3.7	
– ammonium nitrogen	$N\text{-}NH_4$	2.0	
– amide nitrogen	$N\text{-}NH_2$	14.3	
Phosphorus pentoxide	P_2O_5	20.0	soluble in a neutral-pH solution of ammonium citrate and water
Potassium oxide	K_2O	20.0	soluble in water
Boron	B	0.03	soluble in water
Copper	Cu	0.03	chelated by IDHA
Iron	Fe	0.1	chelated by IDHA
Manganese	Mn	0.1	chelated by IDHA
Molybdenum	Mo	0.01	soluble in water
Zinc	Zn	0.05	chelated by IDHA

Contains magnesium (Mg) and sulphur (S).

Packaging: 10 kg

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Application recommendations

Application recommendations – ADOB® NPK Foliar 20-20-20 + micro

Crops	Number of applications per season	Crop phenological stage	BBCH stage	Product application rate [kg/ha]	Spray solution application rate [l/ha]
Arable crops					
Cereals	3-4	4-8 leaves	14-18	2	200-300
		tillering	25-29	3	
		first node to flag leaf	31-39	3	
		heading	51-59	2	
Rapeseed	3-4	4-8 leaves	14-18	3	
		beginning of stem elongation	30-31	3	
		3 to 8 visibly extended internodes	33-38	3	
		green bud	51-53	2-3	
Maize	2-3	4-6 leaves	14-16	2	
		6-8 leaves	16-18	2	
		stem elongation	31-34	3	
Potatoes	2-3	inter-row closure	31-39	4	
		tuber formation	40-49	4	
		fruit development	70-73	4	
Sugar beets	2	4-6 leaves	14-16	3	
		inter-row closure	32-39	3	
Soybean	1	inflorescence emergence and flowering	51-69	2	
Legumes	1	stem elongation	30-39	2	
Sunflower	1	4-8 leaves	14-18	2	
Vegetable crops					
Bulb vegetables e.g. onion, leek	1-2	leaf development	16-19	2-4	300-500
		development of harvestable vegetative plant parts	41-45	2-5	
Cucurbits e.g. pumpkin, zucchini, cucumber	2	leaf development	16-19	3	
		formation of side shoots, inflorescence emergence	21-59	4-5	
Brassica plants e.g. cabbage, cauliflower, broccoli	2	leaf development, rosette growth	14-39	3-5	
		development of harvestable vegetative plant parts	41-45	4-5	
Root vegetables e.g. carrot, celery, beet	2	leaf development	14-19	2-4	
		development of harvestable vegetative plant parts	41-45	4-5	
Leaf vegetables e.g. lettuce, spinach	2	leaf development	14-19	2-3	
		development of harvestable vegetative plant parts	41-45	2-3	
Solanaceous e.g. tomato, pepper, early potato	2	leaf development and formation of side shoots	13-29	4-5	
		inflorescence emergence and flowering	51-69	3-5	
Legumes e.g. bean, pea	2	leaf development	14-29	2-4	
		development of side shoots and the main shoot	21-39	2-4	
Orchard crops					
Stone-fruit trees e.g. sour cherry, sweet cherry	2-3	white/pink bud	57-59	4-5	500-800
		after fruit-set	91	4-5	
Pome trees e.g. apple, pear	2-3	pink/white bud	57	4-5	
		until June fall of buds	71-73	4-5	
Soft fruits e.g. strawberry, blueberry	2-3	inflorescence development	55-59	4-5	300-500
		start flowering	60-61	4-5	
		after fruit-set	91	4-5	
Plant Nursery	2-3	intensive growth	concentration 0.25% - 0.3%		

Recommendations for use in fertigation and hydroponics – please contact ADOB's Gardening Department: **horti@adob.com.pl**

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