

ADOB® NPK Foliar 4-12-38 + micro










Characteristics

ADOB® NPK Foliar 4-12-38 + micro is a multinutrient, multifunctional crystalline fertiliser. This fully water-soluble product is designed for foliar, fertigation and soilless applications to arable, vegetable, floriculture and orchard crops. It supplies plants with the essential nutrients nitrogen (N), phosphorus (P), potassium (K), magnesium (Mg) and sulphur (S), ensuring the optimal development of their roots and aboveground parts. Thanks to its very high content of potassium (the quality nutrient), it stimulates the bulking up of fruits and tubers by boosting accumulation of carbohydrates and oils. It also contains 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 plant roots, flowers and fruits.

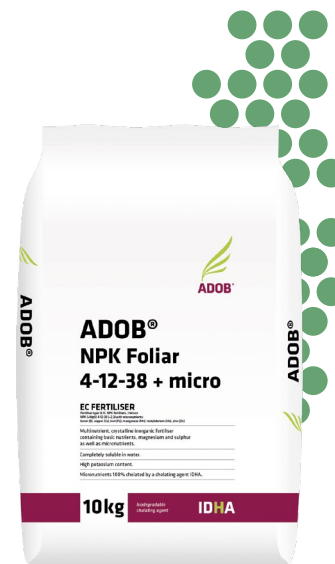
ADOB® NPK Foliar 4-12-38 + micro also improves both the health and quality of plants during their preharvest and postharvest life. It reduces lodging, effectively prevents nutrient deficiencies and enhances plant resistance to salinity and occasional water-stress conditions.

-  CE fertiliser
-  NPK fertiliser + micro
-  high potassium content
-  wide-ranging nutrition
-  **IDHA** chelated
-  100% chelation of micronutrients
-  biodegradable
-  fast dissolution and complete solubility

Composition

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Nutrients	Symbol	Content [% w/w]	Form
Total nitrogen	N	4.0	
– ammonium nitrogen	N-NH ₄	4.0	
Phosphorus pentoxide	P ₂ O ₅	12.0	soluble in a neutral-pH solution of ammonium citrate and water
Potassium oxide	K ₂ O	38.0	soluble in water
Boron	B	0.05	soluble in water
Copper	Cu	0.1	chelated by IDHA
Iron	Fe	0.05	chelated by IDHA
Manganese	Mn	0.1	chelated by IDHA
Molybdenum	Mo	0.01	soluble in water
Zinc	Zn	0.1	chelated by IDHA



Packaging: 10 kg



Application recommendations

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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	2-3	200-300
		tillering	25-29	2-3	
		first node to flag leaf	31-39	2-3	
		heading	51-59	2-3	
 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	development of harvestable vegetative plant parts	41-45	2-4	
		development of harvestable vegetative plant parts	47-49	2-6	
 Cucurbits e.g. pumpkin, zucchini, cucumber	2	flowering and fruit development	61-79	4-5	
		ripening of fruit and seeds	81-89	4-5	
 Brassica plants e.g. cabbage, cauliflower, broccoli	1-2	development of harvestable vegetative plant parts	43-45	4-5	
		development of harvestable vegetative plant parts	46-49	4-5	
 Root vegetables e.g. carrot, celery, beet	2	development of harvestable vegetative plant parts	41-45	4-5	
		development of harvestable vegetative plant parts	46-49	4-5	
 Solanaceous e.g. tomato, pepper, early potato	2	inflorescence emergence, flowering, fruit development	51-79	4-5	
		ripening of fruit and seeds	81-89	4-5	
 Legumes e.g. bean	1	pod development	71-79	3-4	
Orchard crops					
 Stone-fruit trees e.g. sour cherry, sweet cherry	2-3	bud burst	53	2-4	
		fruit development	71-79	4-5	
 Pome trees e.g. apple, pear	2-3	bud burst	53-54	2-4	
		fruit development	74-85	4-5	
 Soft fruits e.g. strawberry, blueberry	2-3	before flowering	55-59	4-5	
		fruit development	71-79	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

