ADOB® Boron

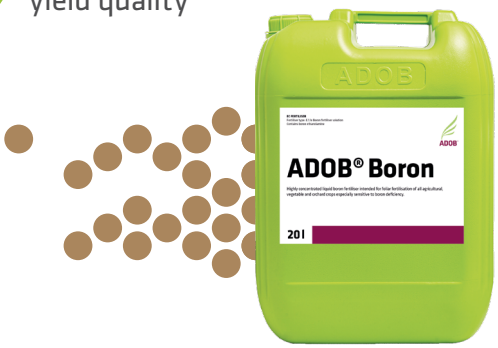
Characteristics

ADOB® Boron is a high-purity, binary-nutrient fertiliser containing 11.1% boron (B), and 5.8% nitrogen. It is a homogeneous aqueous solution, which makes it user-friendly and ensures that nutrients are highly available to plants' leaves and roots. It can be applied through fertigation and hydroponics and is especially recommended for foliar application.

An adequate level of boron is essential for maintaining numerous boron enzymatic plant activities in arable and horticultural crops. These activities include synthesis, structuring and stabilization of cell walls, support of the structural, functional integrity and elasticity of cell membranes, and proper differentiation and development of apical meristems. Boron is also central in the metabolism of the auxin indole-acetic acid (IAA) and in the regulation of the mitosis process during cell division through production of nucleic acids (DNA, RNA).

Appropriate treatments with **ADOB® Boron** can prevent boron shortage in crops, especially in cereals, rapeseed, sugar beet, potato, brassica vegetables, legumes, and pome and stone fruits. It therefore prevents and corrects the serious physiological disorders which lead to heavy losses of yield quantity and decreased quality. The sparse internal transport of boron in many plants requires several spray applications of the product during critical growth stages.

- EC fertiliser
- fast and efficient B uptake
- liquid fertiliser
- outstanding quality
- contains nitrogen
- preventive and corrective effect
- designed specifically for foliar application
- increased yields and improved yield quality



Packaging: 5, 10, 20, 1000 l

Composition

Composition – ADOB® Boron

Nutrients	Symbol	Content [% w/w]	Content [% w/v]	Content [g/l]	Form
Total nitrogen	N	5.8	7.8	78.0	
Boron	B	11.1	15.0	150.0	soluble in water

Przedsiębiorstwo Produkcyjno-Consultingowe ADOB Sp. z o.o. Sp. k.
ul. Kołodzieja 11
61-070 Poznań, PL
email: office@adob.com.pl
www.adob.com.pl

Application recommendations

Application recommendations – ADOB® Boron

Crops	Number of applications per season	Crop phenological stage	BBCH stage	Product application rate [l/ha]	Spray solution application rate [l/ha]
Arable crops					
Wheat s/w*	1	first node to flag leaf	31-39	0.3	200-300
Rapeseed	3-4	4-8 leaves	14-18	1.5	
		beginning of stem elongation	30-31	1.5	
		3 to 8 visibly extended internodes	33-38	1.5	
		green bud	51-53	1	
Maize	2	4-6 leaves	14-16	0.5	
		6-8 leaves	16-18	0.5-1	
Potatoes	3	inter-row closure	31-39	1	
		tuber formation	40-49	1	
		fruit development	70-73	1	
Sugar beets	2	4-6 leaves	14-16	2	
		inter-row closure	32-39	2	
Soybean	1	development of side shoots and the main shoot	21-49	1	
Legumes	2	stem elongation	30-39	1.5	
		pod and seed development	70-79	1	
Vegetable crops					
Bulb vegetables e.g. onion, leek	1-2	leaf development	16-19	0.5	300-500
		development of harvestable vegetative plant parts	41-45	0.5	
Cucurbits e.g. pumpkin, zucchini, cucumber	3	leaf development	16-19	0.5	
		formation of side shoots, inflorescence emergence	21-59	1	
		flowering, fruit development	61-79	0.5	
Brassica plants e.g. cabbage, cauliflower, broccoli	2-3	leaf development	14-19	0.5	
		rosette growth	31-39	1	
		development of harvestable vegetative plant parts	41-49	0.5-1	
Root vegetables e.g. carrot, celery, beet	2-5	leaf development	14-16	0.5	
		leaf development	17-19	0.5	
		development of harvestable vegetative plant parts	41-42	1	
		development of harvestable vegetative plant parts	43-45	0.5-1	
		development of harvestable vegetative plant parts	46-49	0.5-1	
Leaf vegetables	1	development of harvestable vegetative plant parts	41-45	0.5	
Solanaceous e.g. tomato, pepper, early potato	3-4	leaf development, formation and growth of side shoots, tuber formation	13-49	1	
		inflorescence emergence and flowering	51-69	1	
		fruit development	71-79	0.5-1	
		ripening of fruit and seeds	81-89	0.5	
Legumes e.g. bean, pea	3	leaf development	16-19	0.5-1	
		development of side shoots and the main shoot	21-39	1	
		inflorescence emergence and flowering	51-69	1	
Orchard crops					
Stone-fruit trees e.g. sour cherry, sweet cherry	4	bud burst	53	1-2	500-800
		white bud	57-59	1-2	
		flowering	60-69	1-2	
		before leaves fall	92	1-2	
Pome trees e.g. apple, pear	4	bud burst	53-54	1-2	
		pink bud	57	1-2	
		flowering	61-65	1-2	
		after fruit harvest	91-92	1-2	
Soft fruits e.g. strawberry, blueberry	3	start of vegetation	10-13	1-2	300-500
		before flowering	55-59	1-2	
		flowering	60-69	1-2	
		before dormancy	91-93	1-2	

**s/w – spring/winter*

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