



# ADOB® Calmag + Zn

## Characteristics

ADOB® Calmag+Zn is a speciality fertiliser with high concentrations of nitrogen (N; 13.2%), calcium (CaO; 16.4%), magnesium (MgO; 5.9%), zinc (Zn; 0.18%) and copper (Cu; 0.022%). Both zinc and copper in the product are chelated with biodegradable IDHA chelating agent. Owing to a patented production process, ADOB® Calmag+Zn is characterised by several unique properties. The solubility of the product is 2.3kg/l at 20°C and the product's rapid and complete dissolution in water makes the nutrients quickly available to plants. The fertiliser is formulated as fully water-soluble, free-flowing flakes without any impurities. As a result of relatively low hygroscopicity, there is no risk of caking. ADOB® Calmag+Zn is an effective source of calcium, magnesium, zinc, copper and nitrate-nitrogen. The product is mainly recommended for foliar application, hydroponics and fertigation.

ADOB® Calmag+Zn ensures quick and effective fertilisation of plants with macro-, secondary- and micro-nutrients. Nitrogen is the main building block of proteins; it therefore plays a crucial role in plants' vegetative growth and impacts yield productivity. The nitrate (NO<sub>3</sub><sup>-</sup>) form of nitrogen in this product ensures its fast uptake by plants, resulting in quick deficiency correction. Calcium is a structural component of cell walls. Its deficiency reduces the mechanical strength of plants and their resistance to pests and diseases, especially at the post-harvest stage. Magnesium is a central component of the chlorophyll molecule; it is therefore essential for optimal photosynthesis. It also enhances the catalytic activity of many enzymes by establishing a precise geometry between the enzyme and its substrate. Zinc is present in a large variety of enzymes and contributes to maintaining their structural stability. It is involved in a number of important functions in DNA and RNA metabolism, cell division and protein synthesis. It is crucial in the metabolism of the auxin indole-acetic acid (IAA), which enhances the apical growth of plants. Copper plays an important role in photosynthesis, respiration, carbon and nitrogen metabolism, and protection against oxidative stresses.

ADOB® Calmag+Zn is instrumental in the quick correction of calcium, magnesium, zinc and copper deficiencies and eliminates the physiological diseases they cause. It contributes to firmness and uniform ripening in fruits and vegetables; it also extends their storage capacity and durability during transportation. The high concentration of nutrients in this fertiliser meets the needs of even the most demanding plants. It is recommended for preventive and corrective fertilisation of all crops.

## Composition

### Composition - ADOB® Calmag + Zn

Nutrients	Symbol	Content [% w/w]	Form
Total nitrogen	N	13.2	
- nitrate nitrogen	N-NO <sub>3</sub>	12.8	
- ammonium nitrogen	N-NH <sub>4</sub>	0.4	
Calcium oxide	CaO	16.4	soluble in water
Magnesium oxide	MgO	5.9	soluble in water
Copper	Cu	0.022	chelated by IDHA
Zinc	Zn	0.18	chelated by IDHA

-  a mixture of various EC fertilisers
-  flakes
-  IDHA chelated
-  100% chelation of micronutrients
-  low hygroscopicity
-  fast dissolution and complete solubility
-  outstanding quality
-  increased yields and improved yield quality, especially in fruits' post-harvest life



Packaging:  
25, 1000 kg



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