

# ADOB® 2.0 Zn IDHA - 4.4%



## Characteristics

ADOB® 2.0 Zn IDHA - 4.4% is a specialty fertiliser specifically designed to supply plants with highly available zinc cations. Owing to a patented production process, ADOB® 2.0 Zn IDHA - 4.4% is characterised by several unique properties. IDHA is a state-of-the-art, fully biodegradable chelating agent (75% degradation within 28 days), a trait which makes it the only environmentally-friendly synthetically-produced chelating agent on the market. The entire concentration of zinc in the product (4.4% w/w) is 100% chelated by IDHA, making it completely effective and fully available to plants. ADOB® 2.0 Zn IDHA - 4.4% is formulated as a stable, ready-to-use and high-purity aqueous solution, which makes it very convenient for growers to produce working solutions with.

ADOB® 2.0 Zn IDHA - 4.4% serves as an effective source of zinc. It is recommended for foliar application, especially for fruits and vegetable, since its biodegradability means no residues on the produce we consume. The unique "Technology 2.0" used in the product reduces the surface tension on leaves and leads to better leaf coverage, increasing the uptake of zinc by plants. It is recommended for preventive and corrective fertilisation in all agricultural and horticultural crops.

Zinc is present in a large variety of enzymes, where it contributes to maintaining their structural stability. Additionally, zinc works as an external activator for other important enzymes. Zinc is also 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. Zinc deficiency is widespread among plants grown in highly weathered acid soils and in calcareous soils. In the latter case, zinc deficiency is often associated with iron deficiency ("lime chlorosis"). The low availability of zinc in calcareous soils of high pH is mainly due to the adsorption of Zn to clay or CaCO<sub>3</sub>.

Symptoms of zinc deficiency include stunted growth ("rosetting") due to the shortening of internodes, a drastic decrease in leaf size ("little leaf") or, under severe Zn deficiency, death of shoot apices ("dieback"). Quite often these symptoms are combined with chlorosis, which is either highly contrasting or diffusive ("mottle leaf"). In cereals such as wheat, typical symptoms include reduction in shoot elongation and the development of whitish-brown necrotic patches on middle-aged leaves, while young leaves remain yellowish-green and show no necrotic lesions. ADOB® 2.0 Zn IDHA - 4.4%, however, can counteract zinc deficiency, quickly treating these physiological disorders.

- CE fertiliser
- liquid fertiliser
- IDHA chelated
- biodegradable
- 100% chelated Zn
- Technology 2.0
- designed specifically for foliar application
- fast and efficient Zn uptake



## Composition

### Composition - ADOB® 2.0 Zn IDHA - 4.4%

Packaging:  
20, 1000 l

Nutrients	Symbol	Content [% w/w]	Content [% w/v]	Content [g/l]	Form
Zinc	Zn	4.4	5.9	59.0	chelated by IDHA

Contains nitrogen (N).  
Stability of the chelated fraction guaranteed at pH range 4-7.

