

# MAGNESIUM PHLOEM™

## ORGANICALLY COMPLEXED LIQUID MAGNESIUM



### DESCRIPTION

MAGNESIUM PHLOEM™ contains magnesium (Mg) and a number of different organic complexing agents, formulated for enhanced uptake

### KEY BENEFITS

- Single element application to correct magnesium deficiencies
- Aids with protein synthesis, as a component of chlorophyll
- Increases photosynthetic activity
- Organically complexed magnesium for better uptake
- Improved crop quality and yield
- Can be used for foliar or fertigation application
- Suitable to be used on a wide variety of crops
- It is suitable for use in combination with other macronutrients

### CONTAINS

( N% - P% - K% - S% )  
( 0 - 0 - 0 - 0 )

Mg

- 5.68 % W/V



### POSITIONING AND FUNCTIONS

MAGNESIUM PHLOEM™ is a specialised product designed to enhance the uptake of magnesium, a crucial element for plant growth. This product is suitable for a wide range of crops and serves multiple purposes, including managing and rectifying deficiencies and supplying magnesium during periods of high demand.

Selected complexing agents in MAGNESIUM PHLOEM™ enhance leaf uptake, subsequent phloem loading in source tissue and subsequent movement and unloading in sink tissue. These complexing agents also facilitate the effective assimilation of magnesium into plant tissue. Magnesium is an essential macronutrient required by all crops. It plays a central role in the chlorophyll molecule, constituting 6.7% of its structure. This enables magnesium to optimize the utilisation of light energy absorbed during photosynthesis while mitigating the formation of reactive oxygen species (ROS) that can harm leaf tissues.

Magnesium exhibits some mobility within the plant, and a deficiency is typically indicated by inhibited root growth, which is often the first symptom observed. This occurs before older leaves display interveinal chlorosis and exhibit slow growth. Magnesium deficiencies are most likely to occur in acidic sandy soils, leached soils, and calcareous soils with a high pH, particularly in high-performance crop systems. MAGNESIUM PHLOEM™ also aids in the activation of specific enzyme systems and is vital for various plant functions such as cell division, protein formation, and respiration. Additionally, it acts as a carrier for phosphate compounds in phosphate metabolism. Furthermore, MAGNESIUM PHLOEM™ facilitates the transportation of carbohydrates through the phloem, leading to improved production of oils and fats.

### REGION

NEW ZEALAND

### TYPE

Liquid









### APPLICATION

- Foliar
- Fertigation

### PACKAGING

20 l , 200 l , 1000 l

### CROPS

-  Berries
-  Broadacre crops
-  Cotton
-  Fruit trees and vines
-  Kiwis
-  Pastures
-  Tree nuts
-  Vegetables

Product information provided in this document is only valid for New Zealand. | 001 © Agri Technovation 2024