



# Multicote™ Agri

The ideal nutrition for Oil Palm

- The most efficient nutrition
- Optimal growth at the nursery
- Outstanding plant establishment, ensuring a high survival rate
- A single application with up to 16 months of fertilization: A significant saving on labor, and application recourses



Pioneering the Future



A growing demand for palm oil for the food, energy and biodiesel industries motivates growers to seek advanced solutions to get the most from their plantations. As plant nutrition is a crucial factor while striving to generate the best yield possible, Haifa Group offers a CRF based solution for an optimized oil palm nutrition.

Efficient production of vigorous oil-palm plants requires adequate nutrition during the nursery stage. Regulated supply of nutrients is also important for a successful establishment of newly planted trees.

Multicote™ Agri controlled release fertilizers offer ideal nutrition for oil palm nursery and planting, with the special benefits of:



Feeds plants according to their needs with a complete multi-nutrient solution



Provides the highest possible nutrient use efficiency (NUE) and allows for reduced application rates



Only a single application per season is required – saves labor and time



Minimizes the environmental impact of fertilization and reduced leaching of nutrients



Ensures a cost-effective solution for plant nutrition. Lowest TCO, for maximum benefits.



## Multicote™ Agri

Haifa's Multicote™ Agri is an advanced controlled release fertilizer, designed to feed plants over months, boosting growth and eliminating mortality of young trees. Based on a unique polymer coating technology, Multicote™ Agri release nutrients to the soil in a gradual manner, according to plant's requirements. This prevents leaching of nutrients, thus improving nutrient use efficiency and allowing reduced application rates.

Application of Multicote™ Agri has become a common practice in forest trees nurseries and plantations worldwide, offering benefits of superior growth results and simple management.

## How it works



Multicote™ is based on polymer-coated fertilizer granules. During the production process, water-soluble nutrients are encapsulated in a polymeric shell. This shell prevents the immediate dissolution of the fertilizer when applied to the soil. The thickness of the shell determines the longevity of nutrients release.



The dissolved nutrients diffuse through the coating to the root zone, providing the plant with available nutrients at measured portions – according to its growth needs.



While nutrients are released to the root zone, further penetration of moisture dissolves more of the solid fertilizer. At a certain stage, the entire content of the granule is dissolved, ready for diffusion and release. From this stage the release rate slows down.

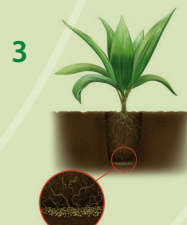


Following application, soil moisture slowly penetrates through the coating which begins a gradual dissolution of the nutrients inside the granule.



After the release is complete, the empty shell ruptures and degrades, leaving no residues in the soil.

## Multicote™ Agri for Oil Palm: Application Recommendations



### Pre-nursery:

Multicote™ Agri (12) 19-10-13+2MgO+Microelements, 5 g/plant.

Apply on the top layer of soil after planting the germinated seeds. Cover the fertilizer granules to avoid wash-off.

### Main nursery stage:

Multicote™ Agri (12) 19-10-13+2MgO+Microelements, 50-70 g/plant (depending on local conditions)

Make a hole in the center of the soil-filled bag. Apply Multicote® Agri into the hole, and place the seedling in the hole. Firm the soil around the seedling and irrigate. Multicote™ Agri will provide the plant with nutrients over 8 months, after which another application of Multicote® Agri or liquid fertilization is required.

Dig 3-4 holes around the tree trunk and apply the Multicote™ Agri into each holes, cover with soil.

### One stage nursery:

Multicote™ Agri (12) 19-10-13+2MgO+Microelements, 50-60 g/plant (depending on local conditions)

Make a hole in the center of the soil-filled bag. Apply Multicote™ Agri into the hole, and place the germinated seedling in the hole. Firm the soil around the seedling and irrigate. Multicote™ Agri will provide the plant with nutrients over 8 months, after which another application of Multicote™ Agri or liquid fertilization is required.

Dig 3-4 holes around the tree trunk and apply the Multicote™ Agri into each holes, cover with soil.

### Plantation:

Transplanting: Multicote™ Agri (12) 19-10-13+2MgO+Microelements, 250-350 gr into the planting hole.

Year 1: Multicote™ Agri (12) 19-10-13+2MgO+Microelements, 400-550 g/plant. Dig 3-4 holes around the tree trunk and apply the Multicote™ Agri into each hole, cover with soil. Year 2: Multicote™ Agri (12) 12-5-26+2MgO+Microelements, 650-850 g/plant. Dig 3-4 holes around the tree trunk and apply the Multicote™ Agri into each hole, cover with soil.

\* Recommendations may vary with climate, soil type, and average temperature.  
For specific recommendation be advice with Haifa professional.



Haifa Group is a leading global supplier of Potassium Nitrate, Specialty Plant Nutrients and Industrial Chemicals. Haifa's operations span over 100 countries, with 14 subsidiaries and 4 production sites. Renowned for its pioneering spirit, Haifa's key mission is to create highly effective plant nutrition solutions for farmers worldwide.

## Haifa Worldwide

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**Headquarters:** Haifa, Israel

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**Asia & Australia:** China | East Asia | Australia | Asia (Desk)

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