



# Microcare<sup>®</sup>

Fe 13

Chelated Micronutrients

FORT



## Iron EDTA Chelated Fe 13%

Microcare<sup>®</sup><sub>FORT</sub> a complete range of water soluble Trace elements straights & Combi produced by full cooperating and supporting by the biggest global Trace elements and chelating producers in the world

### Available Formulas:

Microcare<sup>®</sup><sub>FORT</sub> Fe EDDHA 6%: Iron formulas chelated by EDDHA chelated form added to soil to cover all plant needs & cure Iron chlorises under alkaline soil conditions.

Microcare<sup>®</sup><sub>FORT</sub> Fe DTPA: Iron Formulas chelated by DTPA.

Microcare<sup>®</sup><sub>FORT</sub> EDTA: formulations of Trace elements Chelated by EDTA, special design for foliar application & low pH soil.

Microcare<sup>®</sup><sub>FORT</sub> Fe13 Foliar Fe chelated for foliar application For fast correction & cure Iron chlorises.

Microcare<sup>®</sup><sub>FORT</sub> Zn15 Foliar Zn chelated for foliar application For fast correction & cure Zinc deficiency.

Microcare<sup>®</sup><sub>FORT</sub> Cu 15 Foliar Cu chelated for foliar application For fast correction & cure copper deficiency.

Microcare<sup>®</sup><sub>FORT</sub> Mn 15 Foliar Mn chelated for foliar application For fast correction & cure Manganese deficiency.

Microcare<sup>®</sup><sub>FORT</sub> Combi 1 & Combi 2: Mixture of trace elements chelated.



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## FORT

Chelated Micronutrients

**Foliar Fe For the fast correction & cure Iron chlorises**

### Characteristics

Ethylenediaminetetraacetic acid ferric-sodium complex, EDTA- FeNa.3H<sub>2</sub>O is a stable, water-soluble iron Chelates.

- Appearance Yellow green crystals
- pH (1% solution) 4 - 5.5
- Iron (Fe) content, minimum 13.1%
- Level of chelation fully

Microcare<sup>®</sup> FORT Fe13 is a stable, water-soluble and non-dusting Iron chelate



### Advantages Uses of Microcare<sup>®</sup> FORT Fe13

Chelates give best results when crops have adequate supplies of water and major nutrients and are not under stress for any other reason. there are many factors Causing Fe Deficiencies, e.g: alkaline soil conditions, sandy soils, High phosphate levels, Dry soil conditions, Cold soil conditions, Poor root development, and not proper trace element application.

Iron (Fe) is essential for the production of chlorophyll, and electron reduction in iron deficient plants, there is yellowing between the veins of the youngest leaves whilst older leaves remain dark green. In severe cases, youngest leaves become white and then die, as iron is immobile in the plant, repeated Foliar applications usually are needed as new leaves develop. Microcare<sup>®</sup> FORT Fe13 For the fast correction of iron deficiency in crops and ornamentals growing adversely alkaline soils and calcareous soils, with pH > 7, high contents of carbonate, etc, which has a negative impact on Fe availability in the soil and Fe uptake by plant.

### Rates of use

The following dosages can be used as guidance, the rates indicate upper and lower limits. Actual rates used will depend upon degree of deficiency, type and size of crop and environmental factors.

#### 1. Green house Crops

Crop	Deficient soil / compost For every watering	Foliar application 3 weeks interval
Vegetables	15-25 g / 1,000 l	01-05 g / l
Cut flowers	15-40 g / 1,000 l	01-05 g / l
Potted flowers, pot plants	8 g / 1,000 l	01-04 g/l

#### 2. Open field crops, arable, fruits and vegetables Crops

Foliar application	0.5-1 kg/ha	Apply in water volume that gives adequate coverage of the crop (200-1,000 l). Do not exceed the concentration of 0.1% (1 gram per liter) unless tested.
Soil application, arable crops pH< 6.5	2.5 kg/ha	Apply pre-drilling or pre-planting to bare soil in a convenient volume of water, cultivate after spraying
Soil application, horticultural	2.5-25 kg/ha	Apply through watering system. Use enough water to wet the top 10 cm of the soil. Use clean water immediately afterwards to wash the iron chelate from the foliage. Or use last 5 minutes the foliar application rate.

Never exceed the recommended application rate. In the case of severe deficiencies, applications may have to be repeated at 7-10 day intervals.

### Foliar application

#### General

- Spraying should be carried out on a calm day, but not during strong sunshine, the best time is late afternoon or evening, when atmospheric humidity is greatest.
- The appropriate rate of Microcare<sup>®</sup> FORT Fe13 chelate should be dissolved in a convenient volume of water
- Spraying machines should be fitted with nozzles which produce a fine spray quality.
- To obtain maximum benefit, foliar applications should be started as early as possible in the season as soon as there is sufficient leaf area to absorb the spray. Where ever possible repeat, low dose applications are preferable.

### Irrigation - fertigation in Soil

Application is only recommended when soil pH is below 6.5. Use for alkaline soils Microcare<sup>®</sup> FORT Fe 6%. Apply it dissolved in water to the soil close to the plants or trunks or via drip irrigation. Microcare<sup>®</sup> FORT Fe13 chelates, should be injected into irrigation systems at a rate of 1kg per 10,000 litres of water Repeat the application as necessary during the growth season.

#### Packing

Available in 1 Kg cardboard boxes with an inside polyethylene bag. For more information, please contact our distributor in your area or contact us via e mail [info@adfert.ae](mailto:info@adfert.ae)



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