



FERLAND

**EC CHELATED
IRON FERTILISERS (Fe) [o,o] EDDHA**



STRENGTHS

- HIGH STABILITY AND SOLUBILITY IN ACID (pH 3.5) AND ALKALINE (pH 12.0) H₂O
- MAXIMUM IRON BIOAVAILABILITY
- OPTIMAL ISOMERIC BALANCE, FOR IMMEDIATE AND LONG-LASTING TREATMENT OF THE IRON CHLOROSIS OVER TIME
- GUARANTEE OF EFFECTIVENESS UNDER DIFFERENT ENVIRONMENTAL AND AGRONOMIC CONDITIONS
- GUARANTEE OF HIGH QUALITY AND QUANTITY OF PRODUCTIONS
- TARGETED AND REDUCED DOSAGES COMPARED TO SIMILAR PRODUCTS



Allowed in
Organic Farming



PACKAGE

Bags
1-5-20 Kg



MACFRUT
INNOVATION
AWARDS **2016**



FERLAND and FERROCHEL FEATURES

The **FERLAND** family (**FERLAND**, **FERLAND 634**, **640**, **644**, **648** and **FERLAND Trio**) and **FERROCHEL** contain high-quality **EDDHA chelated iron** with different percentages of isomer [o-o], obtained by an innovative production process (**ECO-Iron**) that guarantees the production of products of the highest quality thanks to the use of raw materials of high purity and solubility.

The **absence of phytotoxic substances** ensures an ideal product for the prevention and **treatment of iron chlorosis** with excellent efficacy at low dosages. The chelated fraction is stable in all types of soils (pH 3,5-12), even in strongly alkaline soils because they provide a high percentage of chelated iron in the ORTHO-ORTHO form [o-o].

OPTIMAL ORTHO-ORTHO-PARA ISOMERIC BALANCE

Fe-EDDHA (orto-orto form)

Due to its chemical bonds (6) the iron ion is very stable, highly soluble in soils with high persistence over time and maintenance of green crops. High recharging capacity capable of making iron and other trace elements (Mn, Zn, etc.) present in the soil in insoluble form bio-available.

Fe-EDDHA (orto-para form)

The ortho-para [o-p] formulation tends to release the iron ion quickly and quickly available to plants due to its (5) chemical bonds, maintaining good stability in the soil. Ultimately, by virtue of the different percentages of the isomeric [o-o] [o-p] forms of our various formulations, it is possible to use the one most suitable for the type of soil (pH) and crop.

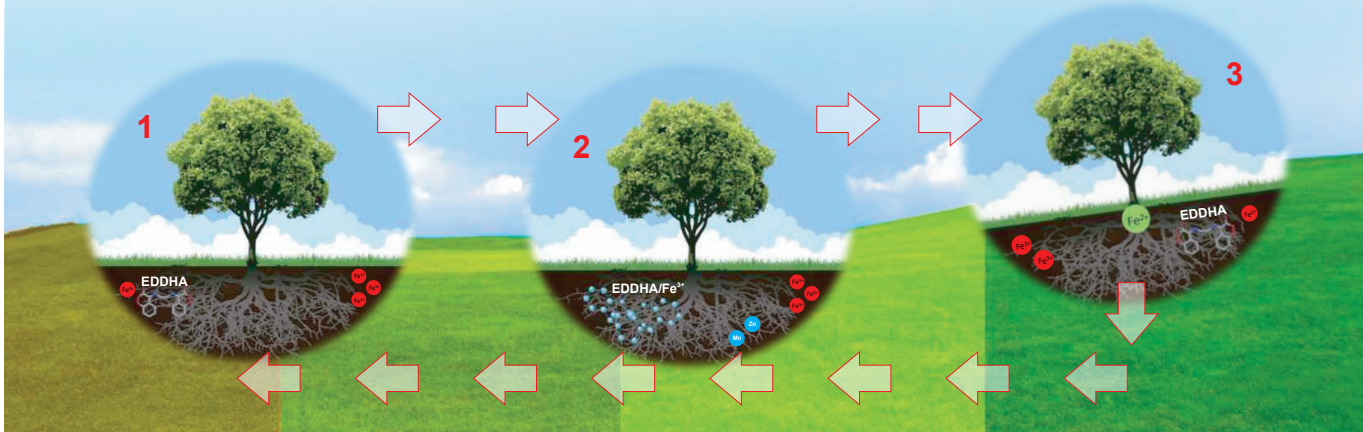


EDDHA chelated iron mechanism of action

EDDHA chelating agent bonds the iron present in the soil but not available for the plant, forming the EDDHA/Fe³⁺ complex

Close to the roots, the chelating agent (EDDHA) releases the Fe ion, which it is absorbed as Fe²⁺, and it promotes the absorption of other microelements

Thanks to the extraordinary reloading capacity the EDDHA chelated agent starts again the cycle, ensuring the continuous supply of iron necessary to the life of the plants



(*) Limited production capacity

COMPOSITION

PRODUCT	Fe (sol. in H ₂ O)	Fe (chelated form)	Chelating Agent	(o-o) Fraction	(o-p) Fraction	Chelate fraction stability pH RANGE
FERROCHEL	6,5%	6,0%	EDDHA	2,0%	4,0%	3,5 - 12
FERLAND 634	6,5%	6,0%	EDDHA	3,4%	2,6%	3,5 - 12
FERLAND 640	6,5%	6,0%	EDDHA	4,0%	2,0%	3,5 - 12
FERLAND	6,5%	6,0%	EDDHA	4,2%	1,8%	3,5 - 12
FERLAND 644	6,5%	6,0%	EDDHA	4,4%	1,6%	3,5 - 12
FERLAND 648	6,5%	6,0%	EDDHA	4,8%(*)	1,2%	3,5 - 12
FERLAND TRIO Fe+Mn+Zn EDDHA	Fe 5,4% Mn 0,9% Zn 1,45%	Fe 3,8% Mn 0,25% Zn 0,45%	EDDHA			4 - 11

DOSES AND METHODS OF USE



CROPS

FERTIGATION

KIWI	Periodically 10-50 g/plant - Post-harvest 5-10 g/plant
Pome fruits and stone fruits	Small plants: 10-30 g/plant - Large plants: 40-80 g/plant
Table and wine grapes	To prevent and treat chlorosis: 10-30 g/plant to improve grape quality: 10-20 g/plant beginning of rachis elongation
Citrus and olive trees	small plants: 30-50 g/plant - large plants: 70-150 g/plant
Tropicals: Banana, Mango, Papaya, Ananas, Avocado	40-80 g/plant
Horticultural and industrial crops: Tomato, pepper, melon, aubergine, Courgette, strawberry, fiatermelon, bean, potato, carrot, etc.	4-8 kg/ha
Endives, lettuces, Fresh-cut leaf, baby leaf - Aromatic crops	2-4 kg/ha
Floriculture, ornamentals and turfgrass	0,5-1 kg/1000 m ²

Use only in cases of recognised need. Do not exceed the appropriate doses

CHEMICAL-PHYSICAL PROPERTIES

PRODUCT	Formulation	Colour	pH soluz. 1% at 20°C	Solubility (g/L) (20°C) value	Solubility (g/L) (20°C) minimum value
FERROCHEL	Microgranules	Red Brown	7.0±1	40	20
FERLAND 634	Microgranules	Red Brown	7.0±1	40	20
FERLAND 640	Microgranules	Red Brown	7.0±1	40	20
FERLAND	Microgranules	Red Brown	7.0±1	40	20
FERLAND 644	Microgranules	Red Brown	7.0±1	40	20
FERLAND 648	Microgranules	Red Brown	7.0±1	40	20
FERLAND TRIO	Microgranules	Red Brown	7.0±1	50	30