chelates catalogue

tradecorp
nutri-performance

CHELATES
The most efficient solution to prevent and correct micronutrients deficiencies

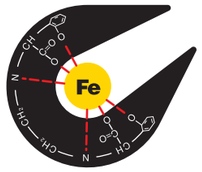
The use of EDTA / EDDHA chelates* is recognized as **the most efficient way to prevent and correct most micronutrient deficiencies in a wide variety of crops** (horticulture, hydroponics, orchards, vines, etc.). Growers around the world use these EDTA / EDDHA chelates in their crop management programs.

UNCHELATED NUTRIENTS

- Metallic micronutrients such as Iron, Zinc, Copper and Manganese carry positive charge, see Iron (Fe) example on the right.
- These micronutrients can be in the form of sulphates, oxides, chlorides and others.
- **Unchelated nutrients are not protected from combination with other nutrients in the soil** such as phosphates and carbonates. These compounds can easily precipitate, becoming unavailable to the plant.

CHELATED NUTRIENTS

- Metallic micronutrients are “bound” by a **chelating agent creating the chemical chelate**. This prevents the nutrient from becoming “fixed” in the soil.
- **Plants can absorb the chelated nutrient** through their roots or leaves **and breakdown the chelate** to use the micronutrient when needed.



** In the EU the word Chelate is a legally defined chemical definition and can only be used when applied to fertilizers containing EDTA, EDDHA, DTPA and a few other specified, high quality, and verified chelating agents. This is why Chelates in European agriculture are so efficient. This is not the case in Australia, and the term Chelate is used by many poor quality products implying they are more efficient than they actually are in the field. Specifically Lignosulfonate, Seaweed and Amino Acids products mixed with nutrients chemically are not Chelates, even to they are often marketed as such.*

WHY TRADECORP

Investing in R&D and a total commitment to quality and efficacy are among the top priorities for Tradecorp. We work to ensure the quality of our products, and we research new techniques related to the process of chemical synthesis, the chelation reaction and the manufacture of chelates and other special fertilizers.

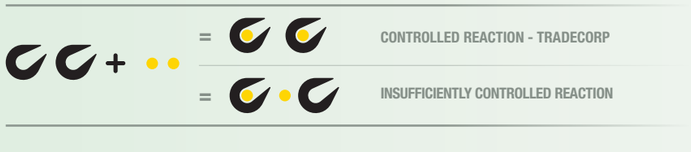
The **flexibility of our production facilities** enables us to offer a wide range of solutions adapted to all types of crops and applications, as well as custom made solutions adapted to local agricultural needs and conditions. In the case of chelates, we offer the possibility of customizable solutions, for example, though our Tradecorp AZ range, a chemical mix of essential chelated micronutrients.

WHY CHOOSE TRADECORP CHELATES?

Tradecorp EDTA / EDDHA Chelates are premium quality and avoid the risk of precipitation of the enclosed micro nutrients that could decrease their efficiency. Tradecorp Chelates also guarantee optimal absorption and assimilation of micro nutrients by crops.

MAXIMUM QUALITY PRODUCT

- The technology employed by Tradecorp in the manufacturing and chelating reactions ensure the highest “Chelation %”. Chelation % is the % of EDTA / EDDHA and micronutrient that are chemically and electrically joined together and is almost 100% in Tradecorp Chelates
- Micronutrient content guaranteed
- Quality of the chelating agents is guaranteed



GREATER EFFICIENCY AND MAXIMUM SECURITY

- **Easy assimilation by the plant** due to the organic structure of the EDTA / EDDHA chelating agent
- **No phytotoxicity problems**, nor burns or damage to the root system or the leaf surface

GREATER VERSATILITY IN APPLICATION

- Possibility of using any application system without blocking drippers or nozzles
- Most efficient regardless of the type of application: foliar, soil and fertigation

GREATER COMPATIBILITY

Compatible with most commonly used fertilizers and agrochemical products (herbicides, fungicides, insecticides), avoiding additional costs for a second application

EASY TO USE

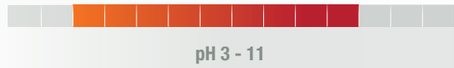
- Presentation in the form of **soluble microgranules** (WG)
- Easy to prepare the dose and easy to handle
- No waste of the product or rinsing of packing

MAXIMUM SOLUBILITY

Total and instantaneous solubility in any kind of water without forming lumps or sediments

OPTIMUM STABILITY

The products are stable in a wide range of pH:



Ultraferro, Tradeferro K6 WG

Tradecorp Ca, Tradecorp Cu, Tradecorp Mg
Tradecorp Zn, Tradecorp Mn, Tradecitrus

Tradecorp Fe

PRODUCTS

ultraferro®

Tradecorp, thanks to the exclusive technology used, is one of the few companies in the world capable of **synthesizing the chelating agent EDDHA**, and manufacture Ultraferro (6% iron EDDHA chelate).

OPTIMUM BALANCE OF ORTHO-ORTHO AND ORTHO-PARA ISOMERS: maximum stability and ideal balance between persistence in soil and speed of action in plants.

TOTAL AND INSTANT SOLUBILITY: in any kind of water without forming lumps or sediments. Soluble microgranules provide easier handling of the product compared to other forms of presentation such as powders where the particle size is much smaller.

STABILITY IN A WIDE RANGE OF pH: maximum stability in all types of conditions and soils.

Ultraferro

6% w/w Fe — Chelated by EDDHA

4.2% w/w Fe — Chelated by EDDHA ortho-ortho isomer

Tradeferro K6 WG

6% w/w Fe

2.1% w/w Fe — Chelated by EDDHA ortho-ortho isomer

tradecorp® range

Tradecorp chelates guarantee proper absorption and assimilation of micro nutrients by crops, avoiding the possible precipitation and formation of insoluble products which can reduce the effectiveness of the application. This range of **EDTA prevents and corrects the deficiencies of different micronutrients.**

Tradecorp Ca

10% w/w Ca — Soluble calcium EDTA chelate

Tradecorp Cu

14.5% w/w Cu — Soluble copper EDTA chelate

Tradecorp Fe

13.2% w/w Fe — Soluble iron EDTA chelate

Tradecorp Mn

13% w/w Mn — Soluble manganese EDTA chelate

Tradecorp Mg

6% w/w Mg — Soluble magnesium EDTA chelate

Tradecorp Zn

14% w/w Zn — Soluble zinc EDTA chelate

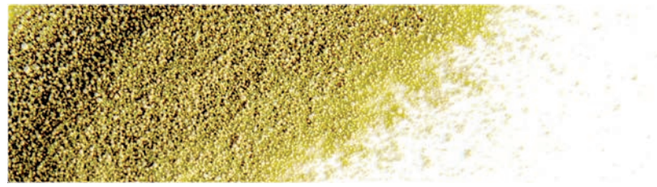
Tradecitrus Tradecorp Zn+Mn

8% w/w Zn

6% w/w Mn — Soluble zinc and manganese EDTA chelate

tradecorp® AZ range

Tradecorp AZ products are supplied as soluble microgranules and manufactured **following a rigorous reaction process.** These products are the result of a chemical synthesis which ensures **homogeneity in terms of composition, density and color.** This range prevents and corrects several deficiencies.

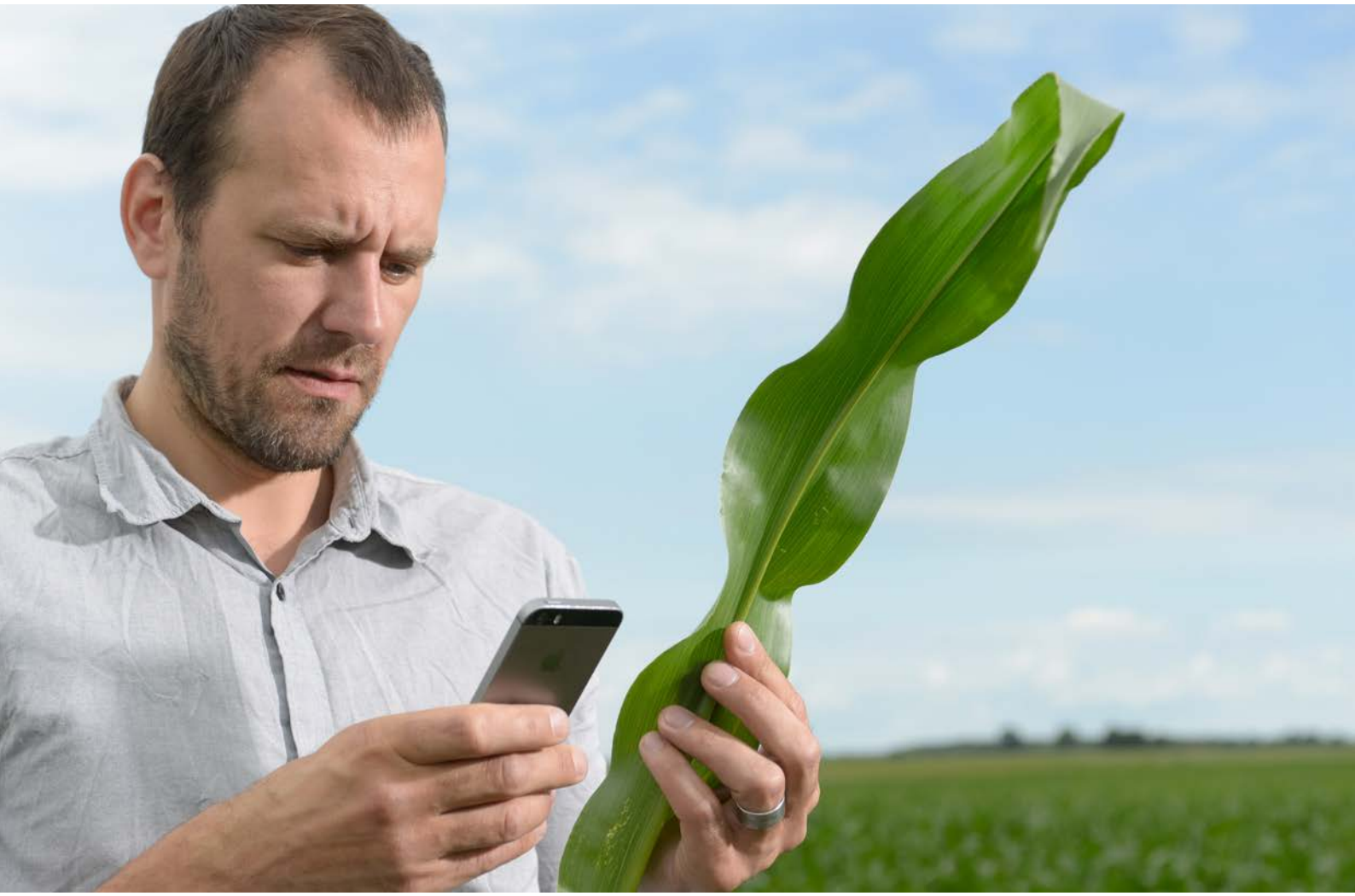


Tradecorp AZ Chelate Range Summary (Australian Portfolio)

% w/w	%Fe	%Fe	%Mn	%Zn	%Cu	%Co	%B	%Mo	%Amino Acids
	Chelated by EDDHA	Chelated by EDTA					In the form of salts		
Tradecorp AZ Fresco Chemical mixture of 6 micro nutrient EDTA chelates with magnesium		4.0	3.0	4.0	0.6		1.5	0.05	
Tradecorp AZ II Chemical mixture of chelated micronutrients (EDTA)		5	3.5	2.48	1		0.65	0.3	
Tradecorp AZ Plus Chemical mixture of chelated micronutrients (EDTA) and amino acids		6	2.5	1.2	0.6	0.02	0.5	0.4	2

Tradecorp has developed a wide range of specific chemical mixtures, adapted to local conditions and agricultural needs. Furthermore, Tradecorp offers the possibility of developing custom formulations for each client or specific requirement.

For detailed information about other products and/or customized solutions from Tradecorp, please contact your local representative or **australia@tradecorp.sapec.pt**



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