



SYNTHRON

MEMBER OF PROTEX INTERNATIONAL

PRODUCT list

**ADDITIVES FOR
THE FERTILIZERS
AND AGROCHEMICALS
INDUSTRIES**

YOUR ADVANCED SOLUTIONS PARTNER

EDDHSA Fe

LIQUID SYNTHRON EDDHSA IRONS

THE ULTIMATE SOLUTION FOR SEVERE IRON DEFICIENCY

SYNTHRON® EDDHSA Fe 2% K LIQUID ORTHO + 2% iron w/w (100% ortho-ortho iron isomer). Potassium salt recommended for very chalky soils. Safer and no product loss vs powder with outstanding stability.

SYNTHRON® EDDHSA Fe 3% K LIQUID 3% iron w/w (70% ortho-ortho iron isomer). Sodium-free salt recommended for chalky soils. Safer and no product loss vs powder.

SYNTHRON® EDDHSA Fe 3.3% K LIQUID 3.3% iron w/w (70% ortho-ortho iron isomer). Sodium-free salt recommended for chalky soils. Highest possible iron concentration for optimum performance.

**OUTSTANDING STABILITY
THANKS TO 100% ORTHO-
ORTHO EDDHSA Fe 2%**

WHY USING SYNTHRON® EDDHSA Fe LIQUID PRODUCTS ?

EDDHSA Fe is being used more and more, in high pH calcareous soils, in hydroponics/fertigation to overcome specific physiologically induced iron deficiency problems thanks to its fully stable liquid presentation.

- € MONEY SAVINGS**
- no product loss during storage, handling and application
 - limited storage costs
 - no extra cleaning costs

- SAFER**
- dust-free
 - ready to apply solution
 - no specific safety equipment needed

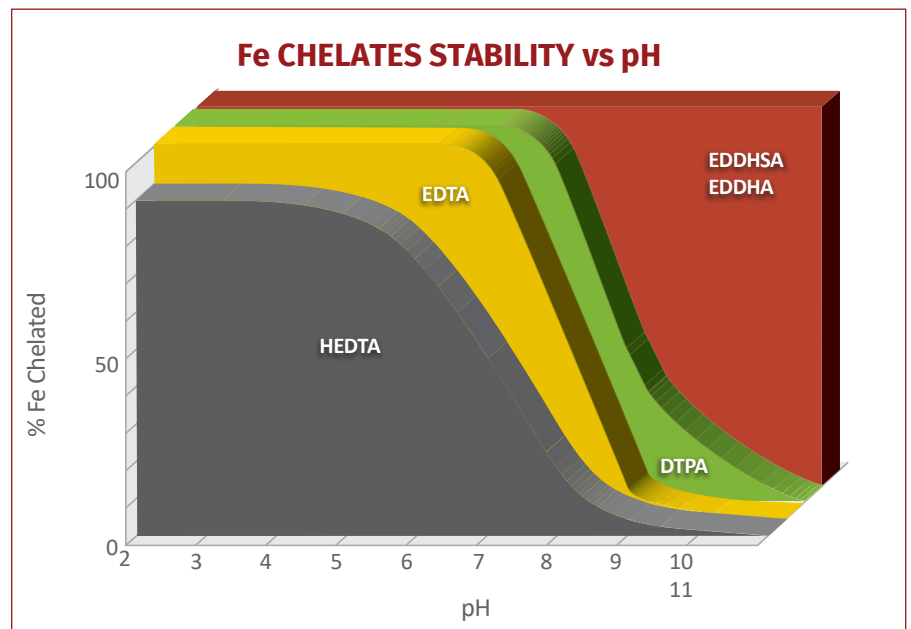
- HIGHER PRODUCTIVITY**
- 100% homogeneous formulation – no deposit



- TIME SAVINGS**
- handling
 - application
 - cleaning

- K+ SUSTAINABLE**
- no disposal of plastic bags
 - sodium-free salts
 - residue-free

**EDDHSA STABLE
UP TO pH = 11**



SOLID SYNTHRON® EDDHSA IRONS

THE MOST STABLE AND SOLUBLE SOLID IRON CHELATES

SYNTHRON® EDDHSA Fe 6% 6% iron w/w (70% ortho-ortho iron isomer).
Sodium salt recommended for chalky soils.
Extreme solubility especially at low pH.

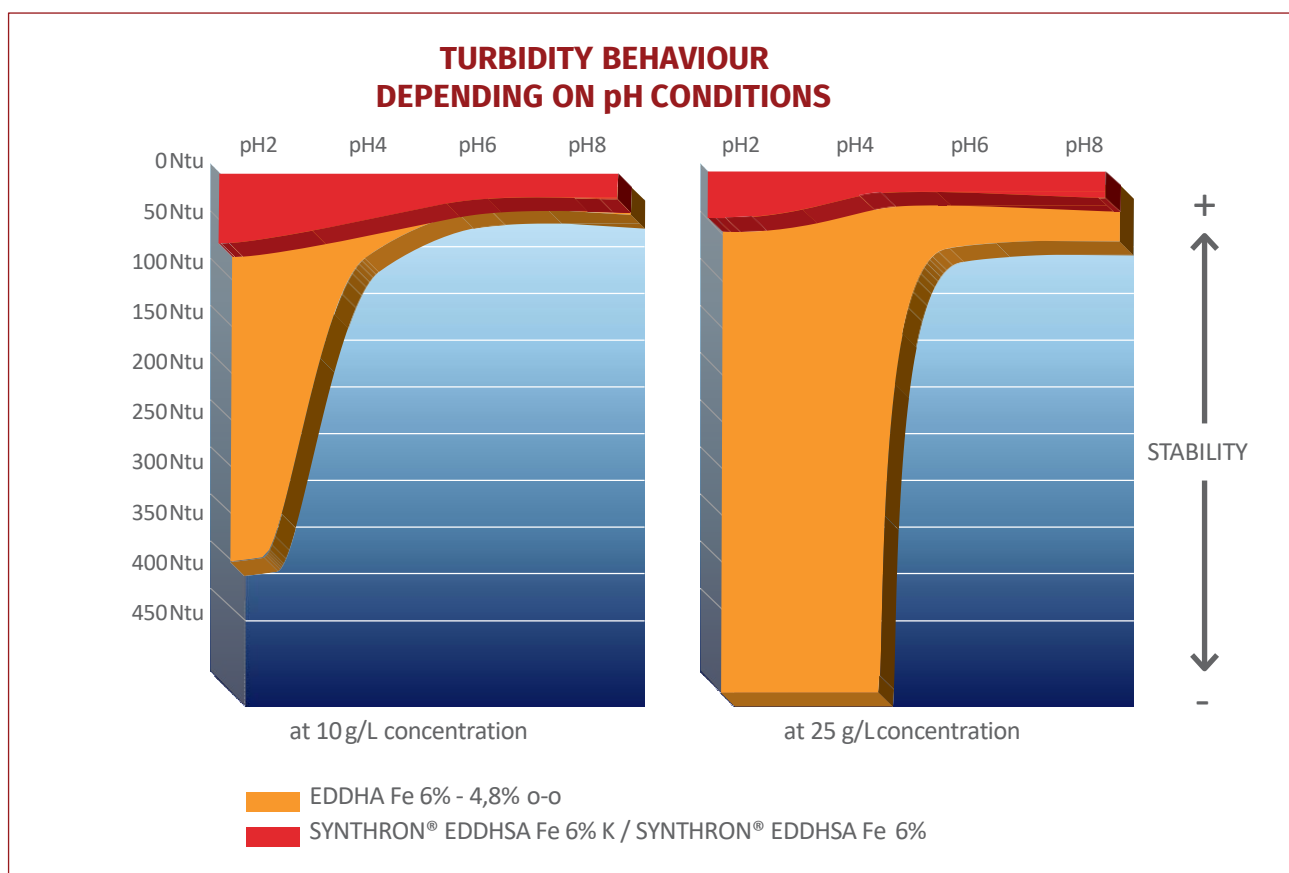
SYNTHRON® EDDHSA Fe 6% K 6% iron w/w (70% ortho-ortho iron isomer).
Sodium-free salt recommended for chalky soils.
Very high solubility especially at low pH.

WHY USING SYNTHRON® EDDHSA Fe POWDER PRODUCTS ?

EDDHSA irons display an outstanding compatibility with all fertilizers at all pH and allow the use of a single stock tank.

**EXTREME SOLUBILITY vs EDDHA
THANKS TO THE SULFONATED
FINE POWDER**

**BEST STABILITY vs EDDHA
ESPECIALLY AT ACIDIC
TO VERY ACIDIC pH**



**HIGHEST
ORTHO-ORTHO CONTENT
vs OTHER EDDHSA Fe**

SYNTHRO®-PON W 681 / W 578

THE SOLUTION TO DISPERSE AND STABILIZE MORE INSOLUBLE MICRONUTRIENTS INTO WATER

SYNTHRO®-PON W 681

Highly biodegradable wetting and dispersing agent for flow formulations.
Stabilizes a high concentration of small size particles of insoluble micronutrients into water.

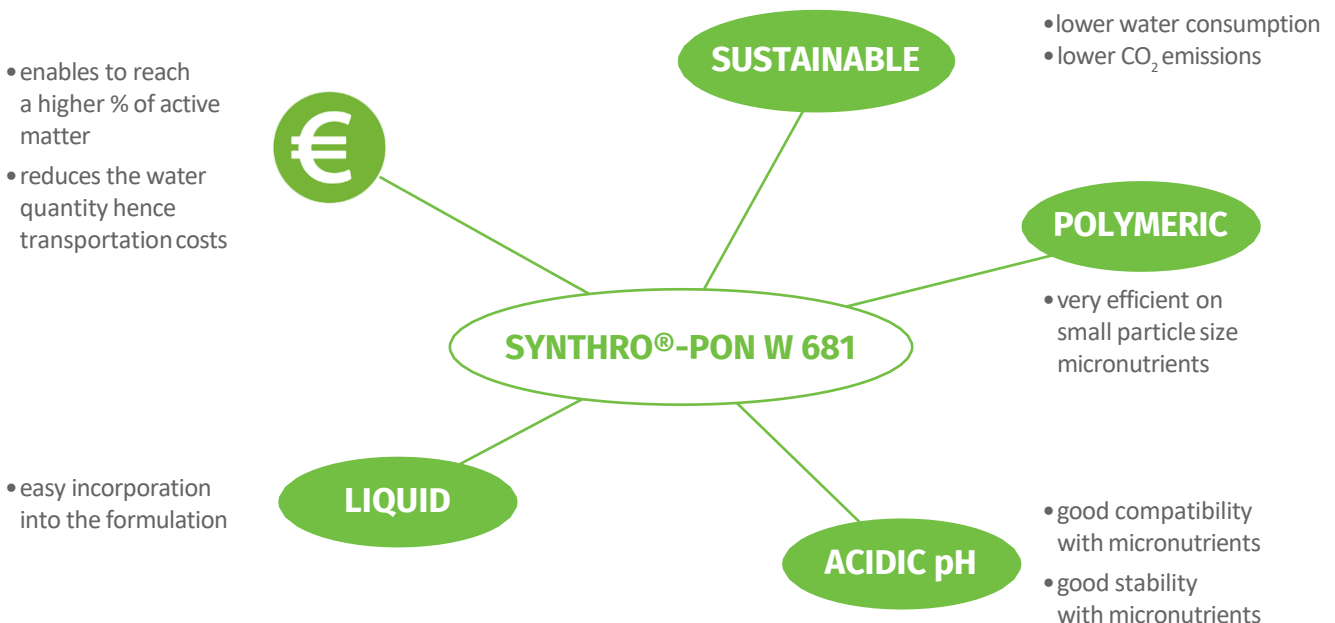
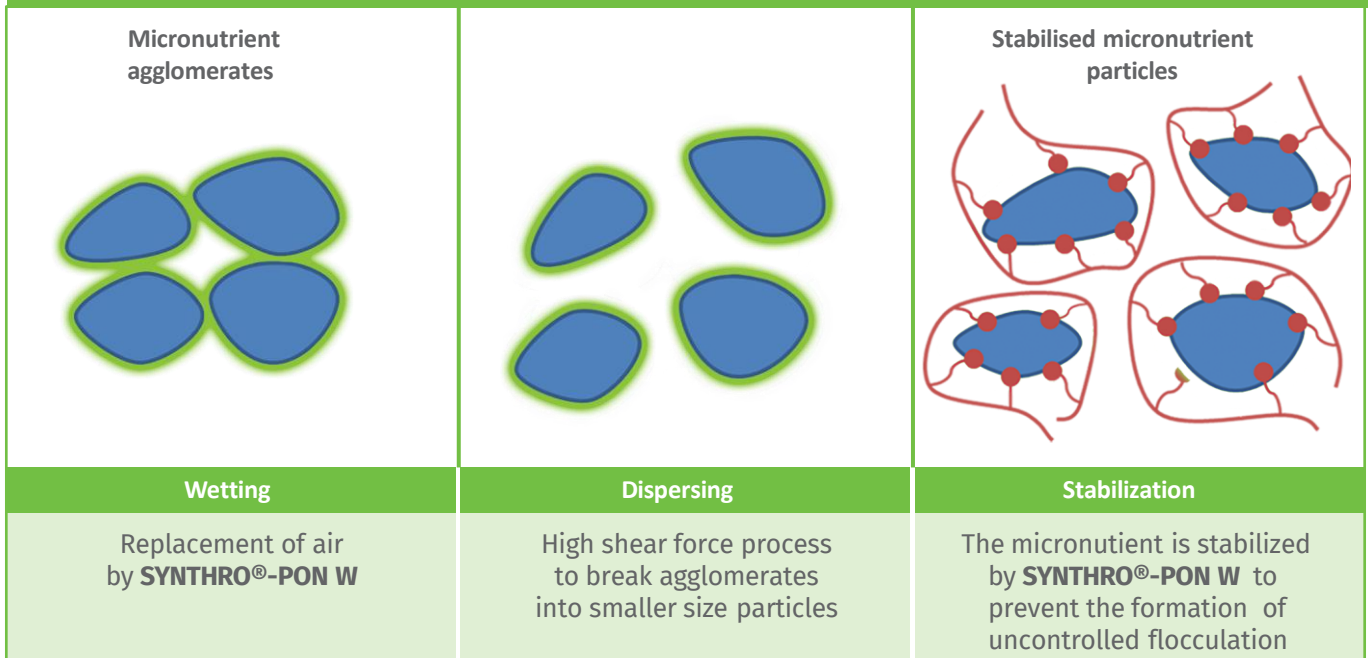
SYNTHRO®-PON W 578

New technology. High molecular weight dispersing agent.
Stabilizes a high concentration of small size particles of insoluble micronutrients into water.

HOW DO SYNTHRO®-PON W WORK ?

SYNTHRO®-PON W 681 and SYNTHRO®-PON W 578 help formulators to easily add micronutrients in their formulations while providing good stability and viscosity.

THIS MECHANISM ACTS IN 3 STEPS :



CHELATED MICRONUTRIENTS

SYNTHRON® EDDHSA IRON CHELATES

SYNTHRON® EDDHSA Fe 2% K LIQUID ORTHO +	2% iron w/w (100% ortho-ortho iron isomer). Potassium salt recommended for very chalky soils. Safer and no product loss vs powder with outstanding stability.
SYNTHRON® EDDHSA Fe 3% K LIQUID	3% iron w/w (70% ortho-ortho iron isomer). Sodium-free salt recommended for chalky soils. Safer and no product loss vs powder.
SYNTHRON® EDDHSA Fe 3.3% K LIQUID	3.3% iron w/w (70% ortho-ortho iron isomer). Sodium-free salt recommended for chalky soils. Highest possible iron concentration for optimum performance.
SYNTHRON® EDDHSA Fe 6%	6% iron w/w (70% ortho-ortho iron isomer). Sodium salt recommended for chalky soils. Extreme solubility especially at low pH.
SYNTHRON® EDDHSA Fe 6% K	6% iron w/w (70% ortho-ortho iron isomer). Sodium-free salt recommended for chalky soils. Very high solubility especially at low pH.

SYNTHRON® EDTA CHELATES

SYNTHRON® EDTA Cu 9% N LIQUID	9% copper w/w – ammonium salt. Sodium-free salt. Safe and ready to use. Wide compatibility for formulating.
SYNTHRON® EDTA Fe 7% N LIQUID	7% iron w/w – ammonium salt. Sodium-free salt. Safe and ready to use.
SYNTHRON® EDTA Mn 6,2% K LIQUID	6% manganese w/w - potassium salt. Sodium-free salt. Safe and ready to use. Wide compatibility for formulating.
SYNTHRON® EDTA Zn 9,5% N LIQUID	9% zinc w/w - ammonium salt. Sodium-free salt . Safe and ready to use.
SYNTHRON® HEDTA Fe 4,5% LIQUID	4,5% iron w/w – sodium salt. Cost competitive liquid solution. Safe and ready to use.

SYNTHRON® DTPA IRON CHELATE

SYNTHRON® DTPA Fe 3,1% LIQUID	3,1% iron w/w – sodium salt. Wider pH stability vs EDTA iron chelates. Very safe for foliar application: no leaf burning vs EDTA iron chelates.
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SYNTHRON® EDTA MICRONUTRIENTS MIX

SYNTHRO®-MIX 78 LIQUID	Micronutrients mix containing Cu-Fe-Mn-Mo-Zn. Highly versatile and well balanced concentrated liquid formulation.
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LIQUID FORMULATION ADDITIVES

DISPERSING AGENTS

- SYNTHRO®-PON W 578** New technology. High molecular weight dispersing agent. Stabilizes a high concentration of small size particles of insoluble micronutrients into water.
- SYNTHRO®-PON 9 TDK** Wetting and dispersing agent. Boosts the SYNTHRO®-PON W 578 efficiency to achieve the highest possible concentration of insoluble micronutrients.
- NEW SYNTHRO®-PON W 681** Highly biodegradable wetting and dispersing agent for flow formulations. Stabilizes a high concentration of small size particles of insoluble micronutrients into water.
- NEW SURFARON A 1530 N 100 LC** Powder form dispersing agent based on a naphthalene polymer. 100 % soluble in water.

WETTING AGENTS

- NEW MODAREZ® SW 452 C** Powerful wetting agent. Reduces the surface tension of water-based formulations. Provides strong efficiency on leaves.
- SURFARON A 6120 N 75** Castor oil-based wetting agent. Strong emulsifying power.

DEFOAMERS

Silicone-based

- MOUSSEX® 9149 SE** Modified polysiloxane. Very strong defoaming effect over a very wide range of pH.
- MOUSSEX® 397 SL** 100% active matter polysiloxane. EPA 4a and EPA 4b compliant.
- MOUSSEX® 9157 SE** Modified polysiloxane. Strong knock-down effect. Very strong defoaming effect over a very wide range of pH.

Vegetable oil-based

- MOUSSEX® 7141 HL-V** Concentrated non-ionic vegetable oil-based. Efficient over a wide range of pH.
- MOUSSEX® 7143 HE-V** Non-ionic vegetable oil emulsion. Efficient over a wide range of pH - it can be used in the dispersion phase or in post-addition.
- MOUSSEX® 7155 HE-V** Non-ionic vegetable oil emulsion. Efficient over a wide range of pH - it can be used in the dispersion phase or in post-addition.
- MOUSSEX® 9128 CL Conc** Based on a renewable raw material. Very efficient in acidic pH.

LIQUID FORMULATION ADDITIVES

RHEOLOGY MODIFIERS

- SYNTHRO®-THIX 928 S** Liquid rheology modifier for low to high polarity oil-based systems. Very good anti-settling and anti-sagging properties.
- SYNTHRO®-THIX 633** Hydrophobic Alkali Swellable Emulsion (HASE) polyacrylate. Very good anti-settling and anti-sagging properties. Forms a stable gel between pH 8 to 12.
- SYNTHRO®-THIX NI 156** VOC-free pH-independent non ionic associative thickener. Strong efficiency in medium shear rate range.

NEW

COMPLEXING AGENT

- MASQUOL® GHN 40** Biodegradable complexing agent based on glucoheptonate. Outstanding complexing power for metallic cations in alkaline pH.

RESINS

- PROX® AMB 328 G** Aqueous emulsion of a vinyl-acrylic copolymer. Gives a flexible film. Provides good compatibility and good adhesion on most substrates.
- PROX® NOP** VOC-free binder for the formulation of film-forming phytosanitary formulations.





SYNTHRON

MEMBER OF PROTEX INTERNATIONAL

WORLDWIDE MAIN LOCATIONS

AMERICAS

Brazil - PROX DO BRAZIL
USA - MACE POLYMERS & ADDITIVES Inc.
USA - NORTHERN SPECIALTY CHEMICALS Inc.
USA - PROX-CHEM AMERICA Inc.

ASIA

China - SINO PROX Chemicals GAOYAO Ltd
China - SHANDONG PROX CHEM
China - SUZHOU PROX CHEM
Indonesia - PT PRODIAN CHEMICALS
South Korea - PROTEX KOREA Co Ltd
Taiwan - HERZER Co. Ltd
Thailand - THAIPROX Ltd

EUROPE

France - SYNTHRON
Germany - PROTEX EXTROSA
Italy - PROXITALIA PRODOTTI CHIMICI Srl
Portugal - PROX LDA
Spain - QUIMOPROX S.L.
United Kingdom - PROTEX CHEMICALS Ltd

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