

# DIAFERRENE line

Boost the photosynthesis efficiency



- High nutritional efficiency thanks to the specific frame of the chelating agent
- Excellent stability of the chelating agents to pH variations (high protection of Iron)
- Increase the Leaf Area (LAI) and greener effect
- High solubility

## CHARACTERISTICS & RESULTS

**DIAFERRENE line** includes three special items based on Fe-chelated. Products of **DIAFERRENE line** are used to prevent and treat Iron chlorosis of crops.

**DIAFERRENE** is the Milagro Fe-chelated fertilizer designed for soil application with the most rapid effect.

**DIAFERRENE TOP 44** is the Milagro Fe-chelated fertilizer designed for soil application with the highest stability in soils at basic pH.

**DIAFERRENE HL** is a liquid Fe-chelated fertilizer designed for foliar application. **DIAFERRENE HL** has a particular chelating agent which allows the resistance against photodegradation.

## APPLICATION RATE

Products	Foliar spray (L/ha)	Drip irrigation (kg/ha)	N° of applications	Timing of applications
<b>DIAFERRENE</b>		10 - 30	2 - 3	from vegetative development with an interval of 15 days
<b>DIAFERRENE TOP 44</b>		10 - 30	2 - 3	from vegetative development with an interval of 15 days
<b>DIAFERRENE HL</b>	1 - 2		2 - 3	from vegetative development with an interval of 15 days

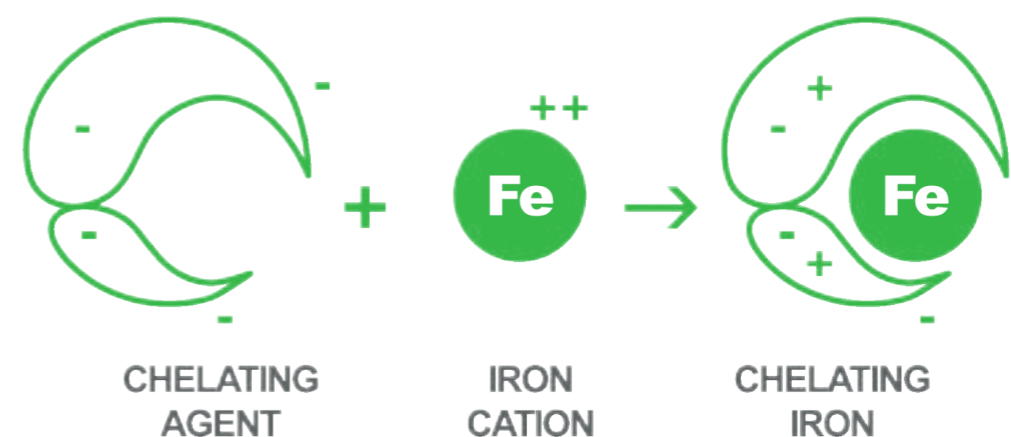


# DIAFERRENE line

Diaferrene, Diaferrene Top 44 and Diaferrene HL



## Mechanism of chelation by a iron cation



Iron cation ( $Fe^{2+}$ ) binds to a chelating compound by strong bonds

## COMPOSITION (% w/w)

	DIAFERRENE	DIAFERRENE TOP 44	DIAFERRENE HL
Total iron (Fe) water soluble	6,0	6,0	6,2
- Iron (Fe) chelated by [o-o] EDDHA	2,4	4,4	-
- Iron (Fe) chelated by [o-p] EDDHA	3,6	1,6	-
- Iron (Fe) water soluble, chelated by DTPA	-	-	6,2
pH at 20 °C at 1% solution	8,0÷9,0	5,5÷7,5	6,5÷8,0
Solubility (g/L at 20 °C)	80÷100	100÷120	-
Density (g/L at 20 °C)	-	-	1270÷1290
Packaging	1kg (1kgX10); 5kg (5kgx4)		1L (1Lx16)

Iron (Fe) chelated with EDDHA is stable in the pH range from 4 to 11.  
Iron (Fe) chelated with DTPA is stable in the range of pH from 4 to 8,2.

