



**PRODUCT INFO  
& DATASHEET**

# SICOGREEN<sup>®\*</sup> DRIP -OFC (Open Field Crops)

*New innovative water soluble fertilisers (WSF) for open field (arable) crops*  
*Very competitive range !*

**INTRO**

09/2023

## 1. INTRODUCTION

SICOGREEN DRIP -OFC is a new innovative line of water soluble fertilisers (WSF) for drip irrigation in open field cropping (OFC), complying with the new EU Fertiliser regulation EU/2019/2019.

## 2. ADVANTAGES

- no dangerous good (ADR) classification, saving transport and storage costs.
- SICOGREEN DRIP contains high quality raw materials for N, P and K and includes secondary elements as Magnesium, Sulfur and CTE (Chelated Trace Elements with variation depending on formula and target application).
- **SICOGREEN DRIP GH (greenhouse hydroponics) and SICOGREEN DRIP OFC (open field crops) are optimised for the respective crop demands at main growth stages.**
- These formulas are designed for low pH and low EC values.
- The high solubility (also in cold water) is the result of our decades-long experience in the formulation of water soluble fertilisers.
- SICOGREEN DRIP formulas are highly concentrated formulas with broad nutrient supply **offering price leadership in this segment.**
- SICOGREEN DRIP formulations show good storability and easy handling.

## 3. USE

SICOGREEN DRIP -OFC are **suitable for chloride tolerant crops** in open field fertigation systems.  
SICOGREEN DRIP -OFC are low priced formulas which offer a optimal crop nutrition program due to different NPK ratios.

**P.S. :** The use of chloride in water soluble formulas is very special for us. Therefore we need a min. order of 1 x 20' fcl = 24 MT with min 4,800 kg per formula (= 4 pallets ) but prices increase for smaller quantities.

**4. SICOGREEN DRIP (OFC – Open Field Crops) - SURVEY :** We offer different nutrient ratios for all crop growth stages.

### \* SURVEY OF AVAILABLE FORMULAS

NPK Drip	N-P <sub>2</sub> O <sub>5</sub> -K ratio	Formula	Chlorine Content
1/ SICOGREEN-P DRIP	1-3-1	13.40.13 + 3 SO <sub>3</sub>	7.5 %
2/ SICOGREEN-K DRIP	2-1-3	16.8.32 + 2 MgO + 4 SO <sub>3</sub>	10 %
3/ SICOGREEN-K DRIP	1-1-3	12.12.36 + 5 SO <sub>3</sub>	7.5 %
4/ SICOGREEN-B DRIP	1-1-1	18.18.18 + 13 SO <sub>3</sub>	10 %
5/ SICOGREEN-B DRIP	1-1-1	20.20.20	11 %
6/ SICOGREEN-N DRIP	5-1-1	25.5.5 + 2 MgO + 31 SO <sub>3</sub>	4 %

## 5. STORAGE & PACKING

SICOGREEN DRIP -GH shows a good storability and do not require special storage conditions (no dangerous good classification and no frost-free storage).

In 25 kg multicolor pp bags (with product label) on 1200 kg net H.T. (heattreated) pallet x 20 = 24 MT/20ft.

**\* This range also exists under our other brands for water soluble NPK's DAVYSOL / PRIMOSOL / LOUSOL / PROFISOL / MAESOL. Our SICOGREEN and LOUSOL brands also exist in 10 kg bags, on pallets of 1000 kg, 20 MT / 20 ft**

### \* HOW TO SELECT YOUR MOST SUITABLE FORMULATION

STARTER	GROWER	FINISHER
13.40.13 + 3 SO <sub>3</sub>	16.8.32 + 2 MgO + 4 SO <sub>3</sub>	12.12.36 + 5 SO <sub>3</sub>
18.18.18 + 13 SO <sub>3</sub>	18.18.18 + 13 SO <sub>3</sub>	16.8.32 + 2 MgO + 4 SO <sub>3</sub>
20.20.20	20.20.20	18.18.18 + 13 SO <sub>3</sub>
25.5.5 + 2 MgO + 31 SO <sub>3</sub>	25.5.5 + 2 MgO + 31 SO <sub>3</sub>	20.20.20

For best results we recommend the use of our new SICOGREEN DRIP -OFC formulas in following open field arable crops, or when you usually use MOP as main Potassium source (in decreasing order from left to right):

Sugar Beet	Asparagus	Sunflowers	Radish
Fodder Neet	Rubber	Pineapple	Carrots
Celery	Rice	Coffee	Kiwi

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Swiss chard	Cassava	Tea	Leek
Coconut	Soybean	Cucumber	Table grape
Cereals	Sugarcane	Potatoes	Stone fruits
Maize	Banana		
Oil Palm	Cotton		

Rates according to crop specific needs. Ask your local agronomist for recommendations for your crop or consult us.

**SICOGREEN<sup>®</sup>\* DRIP -OFC (Open Field Crops)**  
*Avoid excessive Electrical Conductivity (EC) in irrigation on water with safe use of  
 SICOGREEN DRIP -OFC water soluble NPK.*

**SALES RATIONALE**

Electrical Conductivity (EC) is a general measure of salts dissolved in the water. An irrigation source is best if EC levels fall between 0.2 and 1.2 mS/cm. When using irrigation water with a high EC, a growing media with more drainage may be necessary. Since the measurement does not identify which elements are helpful or harmful in the water, a complete nutrient analysis of water is necessary. SICOGREEN DRIP -OFC water soluble fertilisers contain urea, thus reducing EC values to allow higher concentration of the nutrient solution.

Electric conductivity (mS/cm, 20°C) of SICOGREEN DRIP -OFC (WSF).

- All-In-One solution for fertigation in arable crops.
- Soil culture.
- Crops tolerant to chloride.
- Low Electric Conductivity (EC).
- Formula for every growth stage or crop need.

**CERTIFICATES OF ANALYSIS**

**1/ Typical certificate of analysis 13.40.13 + 3 SO<sub>3</sub> - EC-FERTILISER NPK-Fertiliser**

Total nitrogen (N) (%)	13	EN 15750 (Derived method)
Ammoniacal nitrogen (N) (%)	7.9	EN 15604 (Derived method)
Ureic nitrogen (N) (%)	5.2	EN 15604 (Derived method)
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water (%)	40	EN 15958 + EN 15959 (Derived method)
Potassium oxide (K <sub>2</sub> O) soluble in water (%)	13	EN 15477 (Derived method)
Sulphur trioxide (SO <sub>3</sub> ) soluble in water (%)	3	
Chloride (Cl) (%)	7.5	

Nitrogen concentration ppm										
Sicogreen Drip -OFC	50	100	150	200	250	300	400	500	600	700
<b>13.40.13 + 3 SO<sub>3</sub></b>	0.38	0.78	1.14	1.48	1.86	2.17	2.81	3.50	4.09	4.89
pH dest.		Max. solubility				EC mS/cm				
10%	1 g/L	g/L				3 g/L		2 g/L	1 g/L	
3.9	4.3	490				2.9		2.0	1.0	

**2/ Typical certificate of analysis 16.8.32 + 2 MgO + 4 SO<sub>3</sub> - EC-FERTILISER NPK(Mg)-Fertiliser**

Total nitrogen (N) (%)	16	EN 15750 (Derived method)
Nitric nitrogen (N) (%)	3.95	EN 15604 (Derived method)
Ureic nitrogen (N) (%)	12.05	EN 15604 (Derived method)
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water (%)	8	EN 15958 + EN 15959 (Derived method)
Potassium oxide (K <sub>2</sub> O) soluble in water (%)	32	EN 15477 (Derived method)
Magnesium oxide (MgO) soluble in water (%)	2	EN 15961 + EN 16197 (Derived method)
Sulphur trioxide (SO <sub>3</sub> ) soluble in water (%)	4	
Chloride (Cl) (%)	10	

Nitrogen concentration ppm										
Sicogreen Drip -OFC	50	100	150	200	250	300	400	500	600	700
<b>16.8.32 + 2 MgO + 4 SO<sub>3</sub></b>	0.65	1.00	1.33	1.62	2.01	2.46	3.10	3.70	4.44	5.39
pH dest.		Max. solubility				EC mS/cm				
10%	1 g/L	g/L				3 g/L		2 g/L	1 g/L	
3.7	4.6	560				3.2		2.2	1.1	

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**3/ Typical certificate of analysis 12.12.36 + 5 SO<sub>3</sub> - EC-FERTILISER NPK(S)-Fertiliser**

Total nitrogen (N) (%)	12	EN 15750 (Derived method)
Nitric nitrogen (N) (%)	5.8	EN 15604 (Derived method)
Ammoniacal nitrogen (N) (%)	2.40	EN 15604 (Derived method)
Ureic nitrogen (N) (%)	3.90	EN 15604 (Derived method)
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water (%)	12	EN 15958 + EN 15959 (Derived method)
Potassium oxide (K <sub>2</sub> O) soluble in water (%)	36	EN 15477 (Derived method)
Sulphur trioxide (SO <sub>3</sub> ) soluble in water (%)	5	EN 15961 + EN 15749 (Derived method)
Chloride (Cl) (%)	7.5	

Nitrogen concentration ppm										
Sicogreen Drip -OFC	50	100	150	200	250	300	400	500	600	700
<b>12.12.36 + 5 SO<sub>3</sub></b>	0.52	1.06	1.58	2.03	2.53	3.05	3.90	4.78	5.54	6.55
pH dest.		Max. solubility				EC mS/cm				
10%	1 g/L	g/L				3 g/L		2 g/L	1 g/L	
3.5	4.3	490				3.7		2.5	1.3	

**4/ Typical certificate of analysis 18.18.18 + 13 SO<sub>3</sub> - EC-FERTILISER NPK(S)-Fertiliser**

Total nitrogen (N) (%)	18	EN 15750 (Derived method)
Ammoniacal nitrogen (N) (%)	6.6	EN 15604 (Derived method)
Ureic nitrogen (N) (%)	11.4	EN 15604 (Derived method)
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water (%)	18	EN 15958 + EN 15959 (Derived method)
Potassium oxide (K <sub>2</sub> O) soluble in water (%)	18	EN 15477 (Derived method)
Sulphur trioxide (SO <sub>3</sub> ) soluble in water (%)	13	EN 15961 + EN 15749 (Derived method)
Chloride (Cl) (%)	10	

Nitrogen concentration ppm										
Sicogreen Drip -OFC	50	100	150	200	250	300	400	500	600	700
<b>18.18.18 + 13 SO<sub>3</sub></b>	0.34	0.62	0.95	1.22	1.53	1.80	2.42	2.78	3.39	4.08
pH dest.		Max. solubility				EC mS/cm				
10%	1 g/L	g/L				3 g/L		2 g/L	1 g/L	
4.8	5.1	490				3.3		2.2	1.2	

**5/ Typical certificate of analysis 20.20.20 - EC-FERTILISER NPK-Fertiliser**

Total nitrogen (N) (%)	20	EN 15750 (Derived method)
Nitric nitrogen (N) (%)	1.6	EN 15604 (Derived method)
Ammoniacal nitrogen (N) (%)	4	EN 15604 (Derived method)
Ureic nitrogen (N) (%)	14.4	EN 15604 (Derived method)
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water (%)	20	EN 15958 + EN 15959 (Derived method)
Potassium oxide (K <sub>2</sub> O) soluble in water (%)	20	EN 15477 (Derived method)
Chloride (Cl) (%)	11	

Nitrogen concentration ppm										
Sicogreen Drip -OFC	50	100	150	200	250	300	400	500	600	700
<b>20.20.20</b>	0.26	0.46	0.66	1.00	1.17	1.34	1.88	2.18	2.76	3.20
pH dest.		Max. solubility				EC mS/cm				
10%	1 g/L	g/L				3 g/L		2 g/L	1 g/L	
5.2	5.4	440				2.8		2.0	1.0	

**6/ Typical certificate of analysis 25.5.5 + 2 MgO + +31 SO<sub>3</sub> - EC-FERTILISER NPK(Mg)(S)-Fertiliser**

Total nitrogen (N) (%)	25	EN 15750 (Derived method)
Ammoniacal nitrogen (N) (%)	10.5	EN 15604 (Derived method)
Ureic nitrogen (N) (%)	14.5	EN 15604 (Derived method)
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in water (%)	5	EN 15958 + EN 15959 (Derived method)
Potassium oxide (K <sub>2</sub> O) soluble in water (%)	5	EN 15477 (Derived method)
Magnesium oxide (MgO) soluble in water (%)	2	EN 15961 + EN 16197 (Derived method)
Sulphur trioxide (SO <sub>3</sub> ) soluble in water (%)	31	EN 15961 + EN 15749 (Derived method)
Chloride (Cl) (%)	4	

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Nitrogen concentration ppm											
Sicogreen Drip -OFC		50	100	150	200	250	300	400	500	600	700
25.5.5 + 2 MgO + +31 SO <sub>3</sub>		0.29	0.54	0.76	0.98	1.28	1.50	1.90	2.37	2.73	3.31
pH dest.		Max. solubility					EC mS/cm				
10%	1 g/L	g/L					3 g/L	2 g/L	1 g/L		
4.8	5.3	490					3.5	2.4	1.3		

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