



# **Strawberry: Chelal Si and Chelal Omnical Aim of the trial**

The aim of this trial is to improve the quality of the strawberries.

# **General information**

#### Conditions of the trial:

Trial location: Spain – Huelva Variety: RedSayra

Cultivation method: Soil, under plastic tunnels

Date of planting: 08/10/2024

Density: 15 cm x 100 cm

In cooperation with: Agricultura y Ensayo S.L.



#### Experimental design:

Official GEP test (good experimental practices) according to the Randomized Complete Block Design; 4 replicates. Area of an elementary plot:  $2 \text{ m} \times 10 \text{ m} = 20 \text{ m}^2$ 

## **Treatments**

#### 3 modalities:

Modality	Product	Dose*	Application
1	Untreated control	- 1	-
2	Chelal Si	0.5 L/ha	AC: foliar application
			BD: via drip irrigation
3	Chelal Si	0.5 L/ha	AC: foliar application
	Chelal Omnical	1.0 L/ha	BD: via drip irrigation

<sup>\*</sup> The dose was the same for the 4 applications (A, B, C and D).

	Α	В	С	D
Date	23/12/2024	02/01/2025	20/01/2025	03/02/2025
BBCH	85-89	85-89	85-89	85-89
Water quantity	600 L/ha	5000 L/ha	900 L/ha	5000 L/ha

# Results

Per plot, 20 fruits were harvested 7 days after the last treatment. The fruits were stored at a temperature of 5°C. At harvest and at 4 times during storage, the firmness and weight loss were determined and at the same time a score was given for rot.

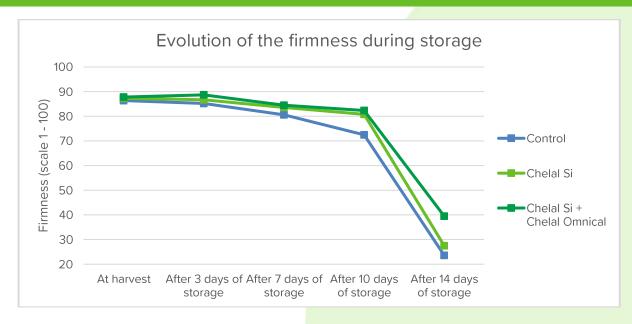
The firmness was determined with the 100 Field Agrosta penetrometer, which uses a scale of 1 to 100, with higher values corresponding to a higher firmness. Since the firmness determinations were carried out in a non-destructive way, the firmness could be determined on the same fruits each time.

### Firmness during storage:

	At harvest		After 3 days of storage		After 7 days of storage		After 10 days of storage		After 14 days of storage	
Control	86.4	а	85.2	а	80.6	а	72.5	U	23.6	b
Chelal Si	87.3	а	86.7	а	83.6	а	80.8	Ω	27.5	b
Chelal Si + Chelal Omnical	87.8	а	88.7	а	84.5	а	82.4	а	39.5	а







# % weight loss during storage:

	After 3 days		After 7 days of		After 10 days	of	After 14 days of		
	of storag	ge	storage		storage		storage		
Control	5.48	а	12.87	а	15.96	а	30.28	а	
Chelal Si	5.31	а	10.46	а	13.00	۵	24.97	b	
Chelal Si +	4.50	а	9.30	а	11.67	b	21.64	р	
Chelal Omnical									

## % fruits without rot during storage:

	After 10 days	of	After 14 days of storage				
	storage						
Control	97.5	а	20.0	а			
Chelal Si	98.8	а	20.0	а			
Chelal Si +	100.0	а	25.0	а			
Chelal Omnical							

## **Calcium content in the fruits:**

