

OSMOSIL

Foliar Osmoprotector.
Bioactive silicon complex



Composition	%w/v
Glycine betaine	20,0
Silicon (SiO ₂)	6,0
Fulvic acids (from leonardite)	6,0
Potassium (K ₂ O, soluble)	5,0
Gluconic matrix	4,0
pH (1% solution) —	4.5 – 5.5



CHARACTERISTICS

OSMOSIL is a foliar osmoprotector based on the synergistic action of silicon and osmoprotective compounds, developed for crops exposed to salinity and osmotic stress. It supports osmotic adjustment and ionic homeostasis, helping to mitigate the negative effects of excess Na⁺ and Cl⁻. It contributes to maintaining membrane integrity, plant water status and photosynthetic activity, thereby improving crop tolerance, recovery and productivity under saline conditions.



**MAINTAINS
PRODUCTIVITY**



**BETTER WATER
REGULATION**



**HIGHER YIELD AND
QUALITY**



**OSMOTIC STRESS
PROTECTION**



**STRONGER AND
HEALTHIER PLANTS**



**REDUCES SALINITY
STRESS EFFECTS**

**OSMOSIL HELPS YOUR CROPS
OVERCOME SALINITY**

MODE OF ACTION

GLYCINE BETAINE

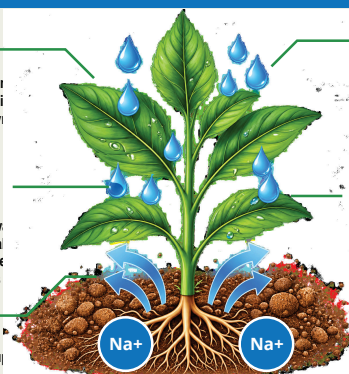
- Osmotic adjustment
- Membrane protection
- Maintains photosynthetic activity

SILICON (SiO₂)

- Strengthens cell walls
- Reduces Na⁺ uptake
- Improves tolerance to salinity and stress

FULVIC ACIDS

- Improve nutrient uptake and transport
- Stimulate metabolic activity



POTASSIUM (K₂O)

- Maintains ionic balance (Na⁺/K⁺)
- Improves water regulation

GLUCONIC MATRIX

- Enhances leaf absorption
- Facilitates translocation of active compounds

PROTECTS TODAY. HIGHER YIELDS TOMORROW.

APPLICATION

CROPS	Dose (L/ha)	APPLICATION TIMING	NUMBER OF APPLICATION	CROPS	Dose (L/ha)	APPLICATION TIMING	NUMBER OF APPLICATION
COTTON	1.5 – 2.0	From 3–4 true leaves, before stress and during flowering	3 – 4	VEGETABLES (TOMATO, PEPPER, MELON, CUCUMBER)	1.5 – 2.0	From early growth through fruit development.	3 – 4
WHEAT	1.0 – 1.5	Tillering and stem elongation.	2 – 3	POTATO	1.5 – 2.0	Vegetative growth to tuber bulking.	3 – 4
MAIZE	1.5 – 2.0	4–6 leaves and pre-tasseling	2 – 3	ONION	1.5 – 2.0	Vegetative growth and bulb enlargement.	3 – 4
RICE	1.0 – 1.5	Tillering and panicle initiation.	2 – 3	ALFALFA	1.0 – 1.5	After each cut.	2 – 3
GRAPEVINE	1.5 – 2.0	Shoot growth, pre-flowering and berry development	3 – 4	SUGARCANE	1.0 – 1.5	Saline and sodic soils, water stress. Flowering. Early growth, grand growth.	2 – 3
FRUITS (APPLE, PEACH, CHERRY)	1.5 – 2.0	Vegetative growth, flowering and fruit growth.	3 – 4				



**LESS STRESS. MORE YIELD.
A SUSTAINABLE TOMORROW**

GENERAL RECOMMENDATION: Adjust dose and number of applications according to soil and water salinity level, crop stage and local conditions.

COMPATIBILITY: Compatible with most fertilizers and crop protection products. Always perform a jar test before mixing.



SALINITY CONTROL