



Presal

Prevent & Correct Salinity Stress



Presal

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Presal



Our Presal salinity stress reducing solutions are available in multiple product options from both liquid and water soluble formulations.

For salinity stress prevention and nutritional input, NovaTec® Presal Fluid and NovaTec® Solub Presal provide the perfect solution. Both contain DMPP nitrification inhibitor delivering optimum nutrition, reduced leaching and with up to 10 weeks longevity.

When salinity stress & sodium levels are high, a corrective approach is needed. Kamasol® Presal SP displaces sodium from soils, replacing it with Calcium while also improving soil structure and strengthening cell membranes.



Presal

What is Salinity Stress?



Salinity Stress

Salt stress occurs as a result of excessive salt accumulation in the soil whereby the plant cannot up-take water it needs with roots. Salinity composes stress by damaging ionic and osmotic balances in plants. Osmotic stress caused by increasing the amount of salt in soil, decreases the amount of water that the plant uses and as a result physiological drought occurs.





Presal

ESSR-1 Elicitor Salt Stress Relief.



- Protects DNA & integrity of cell membranes
- Accelerates bio-accumulation of protecting compounds
- Induces Plant Immune Responses
- Higher tolerance of abiotic stress
- Uptake by roots & leaf
- Increase tolerance of turf to salinity stress



Presal

NovaTec® Solub Presal.



NovaTec® Solub Presal is a water soluble fertiliser with DMPP nitrification inhibitor (NET) and ESSR-1 elicitor. The ESSR-1 elicitor prevents and modulates the turf response to situations of saline stress, reducing the productive losses due to salinity. Easy to apply as a fertiliser, that combats salinity with an internal plant response and external soil response.

20% ammonium, 1% ESSR-1

Analysis	20	0	0	2	58
kg/ha	N	P	K	MgO	S
20	4	0	0	0.4	11.6
40	8	0	0	0.8	23.2
60	12	0	0	1.2	34.8

Application

Pack size - **25kg**

Application rate - **20-60 kg/ha**

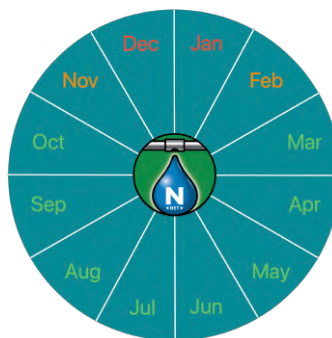
Water volume - Foliar **400-600 L**

Soil - **800-1000 L**

Frequency - **Every 4 weeks***

* depending on environmental factors and salinity stress

Application timing



Areas of use

- Greens
- Tees
- Fairways
- Stadia
- Outfields
- Lawns



Presal

NovaTec® Presal Fluid.



NovaTec® Presal Fluid combines the benefits of DMPP, a nitrification inhibitor, with the unique elicitor ESSR-1 in a liquid form. The elicitor acts as an osmoregulatory and osmoprotective molecule inside the plant and activates the plants' immune defense system. This way, the plants can tolerate salinity stress much better, which results in improved turf health.

7.8% nitrate, 7.7% ammonium, 1.2% organic, 14% ESSR-1

Analysis	17	0	0	2
kg/ha	N	P	K	MgO
20	4	0	0	0.48
40	8	0	0	0.95
60	12	0	0	1.43

Application

Pack size - 10L

Application rate - 20-60L/ha

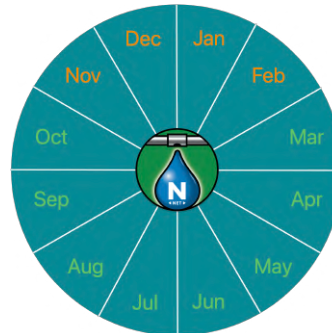
Water volume - Foliar - 400-600 L

Soil - 800-1000 L

Frequency - Every 4-8 weeks*

* depending on environmental factors and salinity stress

Application timing



Areas of use

- Greens
- Tees
- Fairways
- Stadia
- Outfields
- Lawns



Presal



Kamasol® Presal SP is a water soluble organic calcium formulation with ESSR-1 elicitor specially designed to correct high salinity problems. The calcium allows the sodium content of the soil complex to be displaced. The new ESSR® technology: ESSR-1 elicitor, allows the plant to work internally to develop & enhance its own immune system and minimise the negative effects of salinity.
28% CaO, 20% ESSR-1

Kamasol® Presal SP.

Analysis	0	0	0	28
kg/ha	N	P	K	CaO
20	0	0	0	5.6
40	0	0	0	11.2
60	0	0	0	16.8
80	0	0	0	22.4
100	0	0	0	28

Application

Pack size - 25kg

Application rate - 20-100 kg/ha

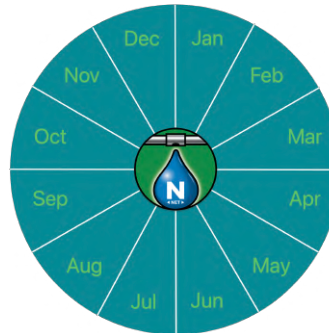
Water volume - 800-1000 L

Recommended to apply with a surfactant (Kick®)

Frequency - Every 4 weeks*

* depending on environmental factors and salinity stress

Application timing



Areas of use

- Greens
- Tees
- Fairways
- Stadia
- Outfields
- Lawns



Presal

Summary.

ESSR-1 elicitor acts as an osmoregulatory and osmoprotective molecule inside the plants

ESSR-1 elicitor allows the plant to work internally to develop & enhance its own immune system



Organic calcium specially designed to correct salinity problems displacing sodium from soil complex.

Presal products combat salinity with an internal plant response and external soil response.



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