

Seerin-NPK(19:19:19) is a fully water soluble fertilizer, a high efficient source of Nitrogen, Phosphorus, and Potassium for plants. Seerin-multi^N, NPK (19:19:19) is the preferred source of NPK in proportion of 1:1:1 as Nitrogen ,Phosphorus and Potash- 19:19:19 at the productive stage of crops (vegetables & fruit) helps to increase sugar content and to improve the quality of these. Its high purity and water solubility makes different to others. Seerin- NPK(19:19:19) an ideal fertilizer for fertigation at harvesting stages of all vegetable crops.

The advantage of seerin- 19:19:19

- Fully water soluble
- Consist of 100% plant nutrients
- Safe for plants and humans: has a moderately low pH and low salt index
- Suitable for fertigation, Foliar application and production of fertilizer blend and nutrient solutions

Product Analysis

Specification	Grade
Total N % by weight minimum	19.00
-Nitrate nitrogen as N % maximum	4.00
-Ammoniacal nitrogen % minimum	4.50
-Urea Nitrogen % maximum	10.50
P ₂ O ₅ % minimum	19.00
K ₂ O % minimum	19.00
Matter insoluble in water % maximum	0.50
Moisture % maximum	0.50
NaCl % maximum	0.50
Total chloride % maximum	1.50
Lead (Pb) % maximum	0.003
Cadmium (Cd) % maximum	0.0025

Water Solubility

Water temperature (°C)	5	10	20	25	30	40
Solubility Gram/Litre	70	90	150	250	320	440

pH & EC

(19:19:19) has moderately low pH that remains almost at different concentration.

Concentration %	0.5	1	5	10
pH	6.02	5.6	5.3	5.0

The EC increase substantially when high concentration (19:19:19) of are used .

Concentration %	0.5	1	5	10
EC (mS/cm)	8.12	16.8	45.2	88.2





Application recommendation

Nutrigation

It is recommended to use Seerin-NPK (19:19:19) as a source of Nitrogen, Phosphorus, and Potassium .Because of it unique characteristic. seerin-NPK (19:19:19) are numerous building blocks of life that plants need for healthy and optimum growth. Without these nutrients, plants cannot grow to their full potential, will provide lower yields, and be more susceptible to disease.

Compatibility

Seerin-NPK (19:19:19) is compatible with most Water-Soluble Fertilizers, except for fertilizer contain (Ca⁺⁺) or magnesium (Mg⁺⁺).

Quantitative Nutrigation

Each kilogram of Seerin-NPK in the tank provide 190 gram of Nitrogen as nitrate and Ammoniacal Nitrogen and Urea Nitrogen. 190 Gram Water soluble Phosphate (as P2O5) and190 Gram K2O .

Proportional Nutrigation

The Nitrogen and Phosphorus, potassium concentration in the irrigation water depend on the quantity of seerin-Multi^N(19:19:19) in the tank mix. and on the injection ratio. use on the following table to calculate the quantity of seerin-Multi^N(19:19:19) and the injection ratio needed to reach a given concentration in the irrigation water.

Seerin-MULTI ^N G/1000liter water	Nutrient concentration (ppm,mg/1000lit.)		
	N	P ₂ O ₅	K ₂ O
100	19	19	19
130	24	24	24
149	28	28	28
185	35	35	35
370	70	70	70

Foliar Feeding :

Foliar application of Seerin- NPK (19:19:19) is an optimal supplement to soil fertilization growth stage when high levels of Nitrogen, Phosphorus and Potassium are required. At early season foliar application with Seerin- NPK (19:19:19) promote the establishment of healthy root system. to attack pests and insects and repeated spray of pesticides it reduces growth of activity of leaves by spray of 19,19,19 ; leaves are rejuvenated and growth is improved thus leading to higher yield of production. Due to floods or droughts the soil nutrients are washed away or are ineffective. Under such situation 19:19:19 spray revives the plant and supplies full nutrients necessary for high yield. High sunlight temperature, cold weather or less soil moisture adversely affects crops. 19 19 19 spray during evening,at sunset effectively maintains healthy crop.