

Seerin-NPK is a fully Water Soluble Fertilizer, a high efficient source of Nitrogen, Phosphorus, and Potassium for plants. It is chloride free fertilizer, Seerin-multi-N, NPK is the preferred source of NPK in proportion of 2:1:3 as Nitrogen, Phosphorus and Potash- 16:08:24 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 other. Seerin- NPK an ideal fertilizer for fertigation at harvesting stages of all vegetable crops.

### The advantage of seerin MULTI-N - N.P.K. (16:08:24)

- 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, at harvesting stage .

### Product analysis

Specification	Grade
Total nitrogen % minimum	16.00
-Nitrate nitrogen as N % maximum	5.50
-Ammoniacal nitrogen % minimum	3.00
-Urea nitrogen % minimum	7.50
Water soluble Phosphate P <sub>2</sub> O <sub>5</sub> % minimum	8.00
Water soluble potash as K <sub>2</sub> O % minimum	24.00
Matter insoluble in water % maximum	0.50
Moisture %maximum	0.50



### Water solubility

Water temperature (°C)	5	10	20	25	30	40
Solubility Gram/Litre	60	90	140	220	290	350

### pH and EC

(16:08:24) has moderately low pH that remains almost at different concentration.

Concentration %	0.5	1	5	10
pH	6.2	6.0	5.4	4.6

The EC increase substantially when high concentration of (16:08:24) are used .

Concentration %	0.5	1	5	10
EC (mS/cm)	9.91	17.72	63.03	105.9

## Application recommendation

### Nutrigation

It is recommended to use Seerin-16:08:24 as a source of Nitrogen, Phosphorus and Potassium

Because of its unique characteristic, seerin-16:08:24 can be applied through any irrigation system and on any growth medium. on most of vegetable crops, field crops, deciduous fruit trees, grapes, berries, olives, and citrus. Seerin-16:08:24 is non-phytotoxic at recommended rates product blended with irrigation water should be used immediately and not stored for long period moderately acidic (see table on the 1<sup>st</sup> page) .

### Compatibility

Seerin- NPK 16:08:24 is compatible with most of all water-soluble fertilizers.

### Quantitative Nutrigation

Each kilogram of Seerin-N.P.K. in the tank provide 160gram of Nitrogen as a Nitrate form and Ammoniacal form. and 80 Gram of Phosphate as a (P<sub>2</sub>O<sub>5</sub>). and 240 Gram water soluble Potash as a (K<sub>2</sub>O) .

### Proportional Nutrigation

The components concentration in the irrigation water depend on the quantity of Seerin-(16:08:24) Multi<sup>N</sup> in the tank mix and on the injection ratio. use on the following table to calculate the quantity of Seerin-(16:08:24) Multi<sup>N</sup> and the injection ratio needed to reach a given concentration in the irrigation water.

Seerin-Multi <sup>N</sup> G/1000liter water	Nutrient concentration(ppm,g/1000lit.)		
	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
100	16	8	24
130	20.8	10.40	31.2
149	23.84	11.92	35.4
185	29.60	14.80	44.4
370	59.20	29.60	88.80

### Application of NPK (16: 08 : 24)

Application of Seerin- NPK 16:08:24 is an main supplement to soil fertilization at growth stage when high levels of phosphorus and potassium and nitrogen are required. the three most important nutrients, without any one of which plants could not survive, are referred to as the primary macronutrients: Nitrogen (N), Phosphorus (P), and Potassium (K).Soils often lack these nutrients, either naturally, or as a result of over cultivation or other environmental factors. In cases where soils are lacking, nutrients must be put back into the soil in order to create the ideal environment for optimal plant growth.