



# Solufeed F

*High quality specific fertilizer for  
hydroponics*

## Features and Benefits

Probably the very first 'speciality fertilizer' and used continuously by professional growers all over the world. Developed for most crops that are capable of being grown hydroponically.

A specifically formulated fertilizer used to create the concentrated stock solution. Used in conjunction with calcium nitrate (in a separate tank) if necessary. Add acid if required to adjust pH.

Recommended for use by growers with a reasonable understanding of the principles of hydroponic crop production.

Ideal for use with automated electrical conductivity (EC) and pH linked injector systems but also suitable for simple diluter systems.

Manufactured using only the highest grade, pure raw materials under stringent quality control systems.

## Directions for use

Solufeed F is designed to create a stock solution and must be used in conjunction with a separate calcium nitrate stock solution where the source water contains insufficient levels of calcium, usually less than about 100 ppm.

Where the source water has a high pH and/or high bicarbonate levels, then adjustment using acid may be necessary. Carefully follow recommendations.

For systems using EC linked dosing equipment then use Solufeed F to make up the stock solution as recommended, typically 1kg in 10 – 15 litres of water. Then follow recommended system operation procedures.

Where fertilizer dosing is carried out with proportional diluters or manually then the “rule of thumb” is that the final feed solution should contain 1 gram per litre of Solufeed F. This will create an EC of 1,860  $\mu\text{S}$  in addition to the background EC.

The table below gives the **EC contribution** ( $\mu\text{S}$ ) to the feed solution when Solufeed F is diluted at different rates from a range of stock solution concentrations.

| Weight of Solufeed F | Stock tank volume (litres) | Dilution rate |       |       |
|----------------------|----------------------------|---------------|-------|-------|
|                      |                            | 1:100         | 1:150 | 1:200 |
| 1 kg                 | 7                          | 2,720         | 1,800 | 1,360 |
|                      | 8                          | 2,310         | 1,530 | 1,160 |
|                      | 10                         | 1,860         | 1,230 | 930   |
|                      | 12                         | 1,540         | 1,030 | 770   |

## Analysis

### EC FERTILIZER NPK Fertilizer

|  |                                   |
|--|-----------------------------------|
| Total Nitrogen (N):  | 8.8%                              |
| Nitrate nitrogen (N):  | 8.8%                              |
| Phosphorus Pentoxide ( $\text{P}_2\text{O}_5$ ) soluble in neutral ammonium citrate and water: | 6.8% (P: 2.94%)                   |
| Potassium Oxide ( $\text{K}_2\text{O}$ ) soluble in water:                                     | 36.0% (K: 29.78%)                 |
| Magnesium Oxide (MgO) soluble in water:  | 5.3% (Mg: 3.2%)                   |
| Boron (B) soluble in water:  | 0.03%                             |
| Copper (Cu) soluble in water:  | 0.016% (chelated by EDTA: 0.016%) |
| Iron (Fe) soluble in water:  | 0.17% (chelated by EDTA: 0.17%)   |
| Manganese (Mn) soluble in water:   | 0.075% (chelated by EDTA: 0.075%) |
| Molybdenum (Mo) soluble in water:  | 0.004%                            |
| Zinc (Zn) soluble in water:  | 0.08% (chelated by EDTA: 0.08%)   |

## General information

**Packaging:** 1 kg cartons and 20 kg polythene bags

**Technical service:** For further information, assistance and access to The Solufeed Advisory Service, please contact Solufeed at the address below.

## Precautions

Detailed health and safety information may be found on the relevant Material Safety Data Sheet (MSDS) available on request from the address below.

## Important

Crop nutrition in inert media and NFT requires special attention because although all nutrients supplied are immediately available to the growing plants, such growing media are incapable of holding a reserve of nutrients and the natural buffering properties of the soil are absent. Consequently the successful culture of crops in inert media requires a more precise approach to nutrition.

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