TECHNICAL INFORMATION



Solufeed H

Fertilizer primarily for hydroponic tomatoes. Use in mix with potassium nitrate and/or potassium chloride

Features and Benefits

Solufeed H is used in conjunction with potassium nitrate and/or potassium chloride. It is one part of a two component mix in order to give flexibility of the source of potassium and also to reduce the level of nitrates in “run to waste” systems.

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 good understanding of the principles of hydroponic crop production.

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

Directions for use

Solufeed H is designed to create a stock solution in mixture with either potassium nitrate and or potassium chloride. Potassium nitrate is the default normal mixer and provides the source of nitrate nitrogen and boosts the potassium to the correct level.

In tomatoes (which are tolerant of chlorides) once picking is established on the first truss, then the requirement for nitrogen in the crop decreases and growers can choose to substitute a portion of the calcium nitrate for the more economical potassium chloride. This allows flexibility in the feeding regime for optimum economy and efficacy.

Must be used in conjunction with a separate calcium nitrate stock solution where the source water contains insufficient levels of calcium.

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 H to make up the stock solution as recommended and follow recommended system operation procedures.

Mixing with potassium nitrate

Mix 35kg of Solufeed H (2 bags of 17.5kg) with 50 kg (2 bags of 25kg) of potassium nitrate in 600 litres of stock tank solution, or *pro-rata* for different sized stock tanks.

Analysis

EC FERTILIZER PK Fertilizer

Total Nitrogen (N):	0 %
Phosphorus Pentoxide ($P_2 0_5$) soluble in neutral ammonium citrate and water:	16.9 % (P: 7.4 %)
Potassium Oxide (K_2O) soluble in water:	28.8% (K: 23.8 %)
Magnesium Oxide (MgO) soluble in water:	11.1 % (Mg: 6.9%)
Boron (B) soluble in water:	0.060%
Copper (Cu) soluble in water:	0.044% (chelated by EDTA: 0.044%)
Iron (Fe) soluble in water:	0.225% (chelated by EDTA: 0.225%)
Manganese (Mn) soluble in water:	0.130% (chelated by EDTA: 0.130%)
Molybdenum (Mo) soluble in water:	0.007%
Zinc (Zn) soluble in water:	0.047% (chelated by EDTA: 0.047%)
Electrical conductivity (EC)	1.29 mS/cm @ 1 gram per litre

pH control

It is important to maintain the pH of the irrigation water at the correct pH of 5.5 – 6.5 i.e. slightly on the acid side of neutral.

Calcium nitrate

Calcium nitrate is required for inert substrates e.g. NFT, rockwool, peat, coir, perlite etc. A separate stock tank is required for the calcium because it is not compatible in concentrated solution with nutrients containing phosphates or sulphates.

The strength of the calcium nitrate stock tank solution is determined by the quantity of calcium in the nursery water supply determined by analysis, by the calcium requirements of the crop and by the total fertilizer tolerance of the crop (measured as Electrical Conductivity or EC).

General information

Packaging: 17.5 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.

The information in this document has been prepared carefully and is provided in good faith. The application, use and processing of any material together with regulatory compliance is the absolute responsibility of the Buyer. All technical information or other advice provided by the Seller in any form is given without warranty to the full extent provided by law.

Please note that products may differ or be unavailable in certain territories.

Copyright ©2020 Solufeed Ltd.

Solufeed and the wavy parallelogram device are trademarks of Solufeed Ltd and registered in relevant countries.

Certificate No: FS 573717

Solufeed Ltd
The Depot
Chichester Road
Sidlesham Common
Chichester
West Sussex PO20 7PY
Tel: +44(0)1243 554090
enquiries@solufeed.com
www.solufeed.com