



**ADRITEC**  
YOUR WAY

# 6 FERTILIZERS & FERTILIZATION



# Fertilizers & Fertilization

## Fertilizers

6

6a1- JANA NPK Fertilizers

---

6a2- JANA Gel Fertilizer

---

6a3- Liquid Fertilizers

## JANA MP

### Multi-Purpose NPK

Water-soluble multi-purpose NPK line of fertilizers is mostly used in drip irrigation and foliar application. The NPK formulations cover a wide range of nutrient ratios. All formulations are balanced, with high nitrate nitrogen, chlorine free and instantly soluble. Due to its premium ingredients and balanced composition, JANA MP solution is the basis of a successful fertigation program. It Covers all nutrients required during the growth cycle of a crop. Its potassium nitrate based formulations help avoid unnecessary excess salt components. All micro-nutrients such as Iron, Zinc, Copper and Manganese are chelated to ensure maximum availability. It is free from sodium, chlorine, and heavy metals. A free flowing fine crystalline powder fertilizer that dissolves quickly in water.

### Product Specifications

Unique soluble fertilizer range for fertigation and foliar application in alkaline and saline soils or hard water qualities. Improves the growing conditions in alkaline circumstances in the root zone by lowering the pH of the water and soil. This increases the efficiency of nutrient up-take and releases natural soil nutrients such as Calcium, Iron, Zinc and Manganese helping to balance the crops nutrition. JANA MP includes formulations for various crops to cover the crop requirements at different growth stages.

#### JMP 15-30-15 + TE

This formula is designed to stimulate sprouting and development of roots, stems and leaves. Due to its nutrient balance and high phosphate content, it is used specifically during the first weeks of the vegetative cycle.

#### JMP 28-10-10 + 2 MgO + TE

This mixture is high in nitrogen. It is designed for stages with a high requirement of nitrogen, especially during leaf expansion and vegetative growth. It is an ideal formula for leafy vegetables.

#### JMP 17-10-26 + 2 MgO + TE

It is a formulation suitable for greenhouse crops such as tomatoes, pepper, cucumber and melon. The N-P-K ratio correlates with the needs of these crops during the majority of the crops life cycle, feeding it with all essential nutrients. This formula can be alternated with Calcium, Calcium Nitrate or Calcium Magnesium Nitrate.

#### JMP 12-12-36 + 2 MgO + TE

This mixture is high in potassium. It is designed for the final phase in the plants life cycle, from fruit formation to final harvest, where potassium is responsible for the transport of sugars from leaves to fruits/seeds/tubers, in order to help obtain a bigger fruit size, better quality and higher fruit weight. The High K nitrogen, present as nitrate nitrogen, enhances potassium uptake and reduces impact of chlorine present in irrigation water and soil.

#### JMP 19-19-19 + 2 MgO + TE

It is a multipurpose formula which can be used in fertigation, center pivot and foliar applications in any stage of the plant growth and development, namely to correct nutritional deficiencies. It is a strong acidifier and works very well in alkaline soil and irrigation waters loaded with high salt and bicarbonate levels.

#### JMP 12-7-20 + 2 MgO + 8 CaO + TE

Calcium contains good levels of calcium and magnesium. The Calcium can be used in combination with other formulations during different crop stages. Calcium has a double calcium effect: it increases calcium levels in the soil solution because of its Calcium content and releases calcium fixed as calcium bicarbonate in the irrigation water and soil.



## JANA HD Fertilizers for Hydroponics

Most common formulations are fine-tuned to match the needs of substrate cultures in hydroponics. Excess or shortage of plant nutrients can often result in production and quality losses. The JANA HD range offers a convenient and foolproof solution to fertilize substrate grown crops. It is applicable for a wide variety of water qualities and crop growth stages without deviating from the optimal nutrient solutions. JANA HD is based on the latest optimal nutrient solutions for substrate grown crops. The chelates provide a pH stability up to 7,5. It can be applied using various fertilizer dosage systems, starting from a simple tank with a volumetric dosage pump up to full automatic AB-units.

### Product Specifications

Two products are suggested for application with Tomatoes and Pepper, Cucumber and Melon, with the following specs:-

	Tomato	Cucumber
	Pepper	Melon
Nitrogen (N), total:	7,4	9,4
Nitrate Nitrogen (N):	7,3	8,7
Ammonium Nitrogen (N):	0,1	0,7
Phosphorous (P <sub>2</sub> O <sub>5</sub> ), soluble in water:	11,3	11,1
Potassium (K <sub>2</sub> O), soluble in water:	37,5	35,4
Magnesium (MgO), soluble in water:	3,0	3,2
Boron (B), soluble in water:	0,04	0,04
Copper (Cu), chelated by EDTA, soluble in water:	0,008	0,008
Iron (Fe), chelated by DTPA, soluble in water:	0,19	0,19
Manganese (Mn), chelated by EDTA, soluble in water:	0,085	0,085
Molybdenum (Mo), soluble in water:	0,008	0,008
Zinc (Zn), chelated by EDTA, soluble in water:	0,035	0,035



## JANA Gel

This range of water-soluble fertilizer line is a soluble fertilizer Gel offering unique properties in terms of concentration, nutrient content and acidifying power. It brings soluble fertilizers to a higher level of performance combining advantages of different technologies in one product. When used in drip irrigation or foliar applications, it increases yield and fruit quality. Highly concentrated formulations, and a low pH helping to reduce clogging of irrigation systems. JANA GL combines the benefit of powder and liquid fertilizers in one product. Unlike suspension fertilizers, it is free of insoluble compounds making it less probable to clog irrigation systems.

### Product Specifications

#### JGL 16-69-16 + TE

It is a blue colored gel soluble fertilizer mixed 200 grams for every 1 liter of water, density approximately 1,65 kg/l . Used in the root startup stage.

#### JGL 27-27-27+ TE

A green colored gel soluble fertilizer mixed 200 grams for every 1 liter of water, density approximately 1,7 kg/l, used in the vegetative stage.

#### JGL 18-11-59 + TE

A red colored gel soluble fertilizer mixed 200 grams for every 1 liter of water, density approximately 1,85 kg/l, used to enhance the fruits.

#### JGL 8-8-38 + 6 MgO + TE

A yellow colored gel soluble fertilizer mixed 200 grams for every 1 liter of water, density approximately 1,75 kg/l, used also to enhance the production stages of a fruit.

## JANA SMN

### Single Micro Nutrients

Crops require several kinds of nutrients. JANA SMN metal chelates act as carriers for micronutrients, ensuring the plant gets the trace elements they need, regardless of environmental conditions. This range of product can be applied on or in the soil or can be sprayed onto plants. High-purity metal chelates are also available to meet the rigorous demands of hydroponic applications.

### Product Specifications

Product	Chelate	Composition	Application	pH stability
Manganese E-13	EDTA	13 % Mn - EDTA	Soil - Hydroponics - Foliar	3 - 10
Zinc E-15	EDTA	15 % Zn - EDTA	Soil - Hydroponics - Foliar	3 - 10
Copper E-15	EDTA	15 % Cu - EDTA	Soil - Hydroponics - Foliar	3 - 10
Iron E-13	EDTA	13 % Fe - EDTA	Soil - Hydroponics - Foliar	3 - 6,5
Iron D-11	DTPA	11 % Fe - DTPA	Soil - Hydroponics - Foliar	3 - 7,5
Ferox 6	EDDHA	6 % Fe - EDDHA	Soil - Hydroponics	3 - 7,5
Ferral 6	EDDHA	6 % Fe - EDDHA	Soil - Hydroponics	3 - 11

**KTS POTASSIUM THIOSULFATE 25-0-0-17S**

**KTS** is a neutral to basic, chloride-free, clear liquid solution containing 25% potash and 17% sulfur. Each gallon of KTS contains 3 pounds of potash (K<sub>2</sub>O) and 2.1 pounds of sulfur. KTS can be applied by drip, sprinkler, or flood irrigation. It can be blended with other fertilizers or applied as a foliar treatment on selected crops. KTS is compatible with urea and ammonium polyphosphate solutions in any ratio.

KTS can be applied by ground or air. It is recommended that the addition of 2 to 4 quarts of Trisert™ NB, or Trisert CB be applied with the KTS. Trisert CB, Trisert NB and N-Sure are controlled release liquid nitrogen products that improve the foliar absorption of KTS and other spray products.

KTS can be applied to a wide variety of ornamental, turf, greenhouse, and other agricultural crops. Potassium requirements for most crops increase dramatically during periods of rapid growth and fruit development. Application of KTS should be made based on soil and/or plant tissue analysis for potassium.

**AMMONIUM THIOSULFATE 12-0-0-26S**

Thio-Sul is a neutral to slightly basic, clear liquid solution, containing 12% nitrogen and 26% sulfur. Each gallon of Thio-Sul contains 1.3 pounds of nitrogen and 2.8 pounds of sulfur. Thio-Sul is compatible with most liquid fertilizer materials.

**THIO-SUL** is an excellent source of sulfur for liquid fertilizer blends; it is an ideal source of nitrogen and sulfur for drip irrigation systems. With its 50% elemental sulfur, it helps improve water penetration and enhances sodium removal. It is easy to handle. Thio-Sul is an excellent source of soluble sulfur for plant nutrition. Nitrogen and sulfur are important components of proteins. Sulfur deficiency can affect the plants ability to utilize nitrogen for protein synthesis. For best management practices and utilization of nitrogen and sulfur, apply Thio-Sul with enough nitrogen fertilizer.

**TRISERT CB 26-0-0-0.5B**

**TRISERT 26-0-0-0.5B**, is a (50% slow release nitrogen (SRN) containing urea-triazone, urea and TKPP) it is an NPK foliar fertilizer solution containing urea-triazone slow release nitrogen (SRN) for the feeding of agricultural crops, nursery, and greenhouse and ornamental plantings.

TRISERT may be applied as a foliar spray application on all field and specialty crops to enhance growth and quality, correct nutritional deficiencies and help plants to rebound from stressful conditions. TRISERT may be applied as a concentrate or dilute solution by ground or aerial application.

This product may also be applied via drip and sprinkler irrigation. Apply with sufficient water to achieve adequate plant coverage.

TRISERT can also be mixed with all kinds of fertilizers, liquid and powder, which increases its effectiveness when used.

**N-SURE 28-0-0**

**N-SURE® 28-0-0**, N-SURE contains 72% slow release nitrogen from urea-triazone. This product is known for its crop safety, increased nitrogen absorption, translocation and remobilization within the plant. N-SURE is recommended for use on agricultural crops, including vegetable, fruit, nut and field crops. It may be applied as a foliar spray application on all crops to enhance growth and quality, supply needed nitrogen (N) and correct nitrogen deficiencies. N-SURE may also be soil applied as a band and side dress application and injected through the irrigation system: drip, sprinkler or center pivot. N-SURE contains 3 pounds of nitrogen per gallon.

**AMMONIUM POLYPHOSPHATE APP 11-37-0**

Developed in the past 30 years, **AMMONIUM POLYPHOSPHATE** (or APP) includes several different compounds including Ammonium Pyrophosphate, Ammonium Tripolyphosphate and Ammonium Tetrapolyphosphate.

AMMONIUM POLYPHOSPHATES or (APP) are characterized by higher phosphorous concentrations because two molecules of orthophosphate have been condensed through the elimination of water.

Due to this concentration, the liquid fertilizer industry has been strongly involved in the use of AMMONIUM POLYPHOSPHATE in their formulations.