

Technical Bulletin

Gainer™ 0-50-30

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Introduction

Gainer 0-50-30 is a 100% water soluble potassium phosphate with micronutrients. This low salt formulation supplements standard fertility practices by providing an additional source of phosphorus and potassium.

Gainer 0-50-30 has a lower salt index than other forms of potash such as potassium nitrate, muriate of potash, or sulfate of potash. Gainer 0-50-30 is a chloride free formulation and is formulated to contain no nitrogen which allows the grower to better balance fertility requirements.

Gainer 0-50-30, when used to supplement a regular fertilizer program, can enhance yield and quality. At low rates, it also will help buffer the water and lower the pH of the solution.

Crops Labeled

Berries

Cranberry

Grapes

Deciduous Fruits

Small Grains

Vegetables: beans, cole crops, garlic, onion, pepper, pea, potato (inc. sweet), tomato and others

Most Other Crops

Use Rates and Timing

Gainer 0-50-30 is most often recommended at 3 to 10 pounds per acre. Use early in the growing season where phosphorous availability is crucial for the establishment of the rooting system. It can be used as

foliar application or with irrigation systems such as drip. Minimal rates of 3 to 5 pounds per 100 gallons of water help buffer the water and lower solution pH.



Precautions

Gainer 0-50-30 is compatible with most commonly used pesticides. However, it should not be used with lead arsenate, hydrated lime, lime sulfur, or other strongly alkaline materials.

- Do not use with amine form of 2,4-D or with dicamba (e.g. Banvel®). In all cases, a jar test is recommended to determine compatibility of Gainer 0-50-30 with other materials before proceeding with high volume mixing. Exceeding 1.8 lbs. of Gainer 0-50-30, or other materials, per gallon of water will over-saturate spray solution and cause a precipitate. Do not exceed 1.8 lbs. of Gainer 0-50-30 per gallon of water at 68°F (20°C).

This product is not recommended for use with copper or tin fungicides. These mixtures can be phytotoxic and damage the crop

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Contents

Guaranteed Analysis

0-50-30

| | |
|---|---------|
| Total Nitrogen (N)..... | 0% |
| Available phosphate (P ₂ O ₅)..... | 50% |
| Soluble Potash (K ₂ O)..... | 30% |
| Boron (B)..... | 0.02% |
| 0.02% Soluble | |
| Copper (Cu)..... | 0.05% |
| 0.05% Chelated | |
| Iron (Fe)..... | 0.10% |
| 0.10% Chelated | |
| Manganese (Mn)..... | 0.05% |
| 0.05% Chelated | |
| Molybdenum (Mo)..... | 0.0005% |
| 0.005% Soluble | |
| Zinc (Zn)..... | 0.05% |
| 0.05% Chelated | |
| Chloride (Cl)..... | <1.0% |
| Arsenic (As)..... | <0.003% |
| Cadmium (Cd)..... | <0.002% |
| Lead (Pb)..... | <0.001% |

Derived from monopotassium phosphate, sodium borate, sodium molybdate, copper EDTA, Iron EDTA, Manganese EDTA and Zinc EDTA.

Technical Specifications

| | |
|-------------------------|--|
| Product class | fertilize |
| Formula | KH ₂ PO ₄ with micronutrients added |
| Appearance | green crystals |
| pH (1% solution) | 4.2 to 4.8 |

| Product (ppm) | EC (ms) | P ₂ O ₅ (ppm) |
|---------------|---------|-------------------------------------|
| 10 | 0.008 | 5 |
| 50 | 0.041 | 25 |
| 100 | 0.082 | 50 |
| 200 | 0.164 | 100 |
| 300 | 0.246 | 150 |
| 400 | 0.328 | 200 |
| 500 | 0.410 | 250 |
| 750 | 0.615 | 375 |
| 1000 | 0.820 | 500 |
| 2000 | 1.640 | 1000 |

Water Solubility 99.95% (% min)

Sieve Test (98% min)

-14 (1.41 mm) + 100 (0.18 mm)

Packaging 25 lb poly bags

This bulletin provides some technical information and is not intended to give complete information for all applications. Always read and follow label directions.

Gainer is a trademark of and manufactured for RSA MicroTech, LLC.

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