

Technical Bulletin

Gainer[®] High Yield

RSA MicroTech
P.O. Box 39, Marysville, WA 98270
1.800.426.5969 www.rsamicrotech.com

Introduction

Gainer High Yield is a premium balanced formulation of high analysis NPK with elevated levels of sulfur and zinc. It is one of the most versatile products which contains 6 micronutrients, sulfur, multiple nitrogen sources, and is completely water-soluble. This product contains a proprietary formulation with formulation aids to improve product performance.

Gainer High Yield is an excellent choice for early to middle season applications with lower nitrogen to PK ratio than 20-20-20 for improved plant vigor. Gainer High Yield, because of the potential acidity, helps counteract water alkalinity in spray solutions. The following chart shows the approximate stock solution pH when starting with a pH of 8.1. As water quality may vary always confirm pH with a jar test.

Concentration	pH
1 lb/ 100 gal	6.1
1 lb/ 50 gal	5.9
1 lb/ 10 gal	4.9
1 lb/ 5 gal	4.0
1 lb/ 1 gal	3.1

Recommended Crops

Berries: blackberry, blueberry, cranberry, raspberry, strawberry

Nut Crops: almond, walnut and other nut crops

Grain and Other crops: alfalfa, barley, canola, corn, cotton, hops, lentil, mint, rice, sorghum, soybean, sugar beet, sweet corn, wheat

Vegetables: asparagus, broccoli, cabbage, cauliflower, carrot, celery, lettuce, melon, onion, pea, pepper, potato, tomato, turnip

Tree and Fruit Crops: apple, avocado, cherry, citrus, grape, peach, plum and other tree fruits.

Use Rates and Timing

Gainer High Yield is most often recommended at 3 to 10 pounds per acre per application. Do not exceed one pound of Gainer High Yield per gallon of spray solution. Use early to middle in the growing season where foliar supplements may increase yield and crop quality. If used at a rate of 5 pounds per acre, each 25 bag will cover 5 acres. For spot treatments, use 1 tablespoon per gallon of water. This product can be applied by ground, air, and in all types of irrigation.



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Precautions

Always dissolve Gainer High Yield in the water prior to the addition of any other products. Always agitate for a minimum of 10 minutes or until all the crystals are dissolved. Gainer High Yield is compatible 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 forms of 2,4-D or with dicamba.

In all cases, a jar test is recommended to determine compatibility of Gainer High Yield with other materials before proceeding with high volume mixing. When mixing use stainless steel, fiberglass, polyethylene, or other plastic materials.

Contents

GUARANTEED ANALYSIS- 15-20-20

Total Nitrogen (N).....	15.00%
5.10% Ammoniacal Nitrogen	
6.20% Nitrate Nitrogen	
3.70% Urea Nitrogen	
Available Phosphate (P ₂ O ₅).....	0.00%
Soluble Potash (K ₂ O).....	20.00%
Sulfur (S) Total.....	2.00%
2.00% Sulfur, Combined	
Boron (B) Total.....	0.08%
0.08% Soluble Boron	
Copper (Cu) Total.....	0.15%
0.15% Soluble Copper	
Iron (Fe) Total	0.10%
0.10% Chelated Iron	
Manganese (Mn) Total	0.10%
0.10% Soluble Manganese	
Molybdenum (Mo) Total	0.0005%
0.0005% Soluble Molybdenum	
Zinc (Zn) Total	0.00%

1.00% Soluble Zinc

Chloride.....	<1%
Arsenic (As).....	<0.003%
Cadmium (Cd).....	<0.002%
Lead (Pb).....	<0.001%

Derived from: Ammonium Phosphate, Ammonium Sulfate, Potassium Nitrate, Urea, Sodium Borate, Copper Sulfate, Iron EDTA, Manganese Sulfate, Sodium Molybdate, and Zinc Sulfate.

Technical Specifications

Product class	fertilizer
Appearance	clear, blue, odorless crystals
Specific Gravity	1.16 g/ml
Salt Index	51
Potential Acidity	17 lb calcium carbonate equivalent per ton
pH (1% solution)	5.0
Water Solubility	99.95% (min)
Sieve Test (98% min)	-14 (1.41 mm) + 100 (0.18 mm)
Packaging	25 lb poly bag

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

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