

Grower's Special Blend

Grower's Special Blend 21-8-18 PLUS provides the backbone of many greenhouse grower's nutritional program. This general purpose formula serves a wide variety of needs in all growing conditions, and meets the specific nutritional needs of many floriculture and greenhouse crops. It is more economical to use because of its lower phosphorous level.

MIXING RATE FOR 100 PPM NITROGEN HOSE END SPRAYER:
1:15 ratio- 1 oz. per gal.
TANK: 1.58 oz. per 25 gals.
PROPORTIONER:
1:100 ratio use 6.43 oz. per gal. of concentrate.
OTHER RATIOS:
Multiply ratio times ounces divided by 100.
OTHER PPM: Multiply desired PPM times ounces divided by 100.

Guaranteed Analysis (For continuous liquid feeding)			
21-8-18+ Grower's Special Blend	Percent	Lbs/Ton	Concentration at 200 PPM
Total Nitrogen (N)	21%	420	200 PPM as N
8.54% Ammoniacal Nitrogen			
12.46% Nitrate Nitrogen			
Available Phosphate (P ₂ O ₅)	8%	160	76 PPM as P ₂ O ₅
Soluble Potash (K ₂ O)	18%	360	171 PPM as K ₂ O
Magnesium (Mg) Total	0.11%	2.2	1.05 PPM as Mg
0.11% Water Soluble Magnesium (Mg)			
Sulfur (S)	0.14%	2.8	1.33 PPM as S
Boron (B)	0.01%	0.2	0.10 PPM as B
Copper (Cu)	0.05%	1.0	0.48 PPM as Cu
0.05% Chelated Copper (Cu)			
Iron (Fe)	0.05%	1.00	0.48 PPM as Fe
0.05% Chelated Iron (Fe)			
Manganese (Mn)	0.03%	0.6	0.29 PPM as Mn
0.03% Chelated Manganese (Mn)			
Molybdenum (Mo)	0.005%	0.10	0.048 PPM as Mo
Zinc (Zn)	0.008%	0.16	0.076 PPM as Zn
0.008% Water Soluble Zinc (Zn)			
Derived from Ammonium Nitrate, Ammonium Phosphate, Potassium Nitrate, Magnesium Sulphate, Boric Acid, Copper EDTA, Iron EDTA, Manganese EDTA, Sodium Molybdate, and Zinc Sulphate. Potential acidity equivalent to 439 lbs. Calcium Carbonate per ton.			

Nitrogen Parts Per Million Chart				
Injector Ratio	Ounces required per Gallon of concentrate			
	100 PPM	150 PPM	200 PPM	300 PPM
1:50	3.17	4.75	6.34	9.51
1:100	6.35	9.52	12.70	19.05
1:150	9.51	14.26	19.28	28.92
1:200	12.69	19.03	25.38	38.07
1:300	19.04	28.56	38.08	57.12
Based on 1/2 gallon per square foot coverage. Two Tablespoons equals One Ounce (approximately) One Cup equals One Pound (approximately)				

Conductivity of 21-8-18+ using distilled water mixed at: (allow +/- 10%)	
50 PPM Nitrogen =	.32 Millimhos/CM
100 PPM Nitrogen =	.64 Millimhos/CM
150 PPM Nitrogen =	.96 Millimhos/CM
200 PPM Nitrogen =	1.28 Millimhos/CM
300 PPM Nitrogen =	1.92 Millimhos/CM
400 PPM Nitrogen =	2.56 Millimhos/CM
500 PPM Nitrogen =	3.20 Millimhos/CM