

**Plug Special**

If the proper nutrients are not available to the plant in the first few days of growth, a plant will not obtain its full growth potential. Plug Special 13-2-13<sup>PLUS</sup> is designed to do just that. It is a formula with high nitrate nitrogen, calcium, magnesium, and minor elements, most derived from the sulfate form, and all combined into a totally soluble mix. The trace elements are delicately balanced at levels that have proven to perform well. This 13-2-13 formulation contains 2% P<sub>2</sub>O<sub>5</sub> as well as a higher percentage of sulphur than our 14-0-14. Even though it contains calcium and phosphorus this formula will maintain its solubility over a broad pH range. Although designed for plug growing, this formula will work equally well on any crop that may be sensitive to ammoniacal nitrogen during low light periods.

**GREENHOUSE MIXING RATE FOR 200 PPM NITROGEN**  
**HOSE END SPRAYER:**  
 1:15 ratio- Premix  
 3.08 oz. in 1 gallon (23.08 grams per litre).  
**TANK:** 0.21 oz. per gallon (1.54 grams per litre).  
**PROPORTIONER:**  
 1:100 ratio use 20.5 oz. per gal. of concentrate (154 grams per litre).  
**OTHER RATIOS:**  
 Multiply ratio times weight divided by 100.  
**OTHER PPM:** Multiply desired PPM times weight divided by 200.  
 Increase or decrease PPMN according to crop response.

<b>Guaranteed Analysis</b> (For continuous liquid feeding)			
<b>13-2-13+ Plug Special</b>	<b>Percent</b>	<b>Lbs/Ton</b>	<b>Concentration at 200 PPM</b>
Total Nitrogen (N) .....	13%	260	200 PPM as N
0.74% Ammoniacal Nitrogen			
12.26% Nitrate Nitrogen			
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	2%	40	31 PPM as P <sub>2</sub> O <sub>5</sub>
Soluble Potash (K <sub>2</sub> O) .....	13%	260	200 PPM as K <sub>2</sub> O
Calcium (Ca) .....	6%	120	92 PPM as Ca
Magnesium (Mg) .....	3%	60	46 PPM as Mg
Boron (B) .....	0.0017%	0.03	0.02 PPM as B
Copper (Cu) .....	0.03%	0.60	0.46 PPM as Cu
0.028% Chelated Copper (Cu)			
Iron (Fe) .....	0.05%	1.0	0.77 PPM as Fe
0.05% Chelated Iron (Fe)			
Total Manganese (Mn) .....	0.03%	0.60	0.46 PPM as Mn
0.028% Chelated Manganese (Mn)			
Molybdenum (Mo) .....	0.0075%	0.15	0.12 PPM as Mo
Zinc (Zn) .....	0.028%	0.56	0.43 PPM as Zn
0.028% Chelated Zinc (Zn)			
Derived from Ammonium Phosphate, Potassium Nitrate, Magnesium Nitrate, Calcium Nitrate, Borax, Sodium Molybdate and the EDTA form of Copper, Iron, Manganese, and Zinc. Potential basicity equivalent to 233 lbs. Calcium Carbonate per ton.			

<b>Nitrogen Parts Per Million Chart</b>				
<b>Injector Ratio</b>	<b>Ounces required per Gallon of concentrate</b>			
	<b>100 PPM</b>	<b>150 PPM</b>	<b>200 PPM</b>	<b>300 PPM</b>
<b>1:50</b>	5.13	7.69	10.26	15.39
<b>1:100</b>	10.25	15.37	20.50	30.75
<b>1:150</b>	15.39	23.08	30.78	46.17
<b>1:200</b>	20.50	30.75	41.00	61.50
<b>1:300</b>	30.76	46.14	61.52	92.28
Based on 1/2 gallon per square foot coverage. Two Tablespoons equals One Ounce (approximately) One Cup equals One Pound (approximately)				

<b>Conductivity of 13-2-13+</b> using distilled water mixed at: (allow +/- 10%)	
50 PPM Nitrogen =	.37 Millimhos/CM
100 PPM Nitrogen =	.75 Millimhos/CM
150 PPM Nitrogen =	1.12 Millimhos/CM
200 PPM Nitrogen =	1.50 Millimhos/CM
300 PPM Nitrogen =	2.25 Millimhos/CM
400 PPM Nitrogen =	3.00 Millimhos/CM
500 PPM Nitrogen =	3.75 Millimhos/CM