



Cal-Mag Special 14-3-20 PLUS
 With 4% Calcium and 2% Magnesium

- **High Nitrate Nitrogen**
- **Stiffen Stems**
- **Deeper Color**

Cal-Mag Special is a non acidifying ready source of available calcium and magnesium in a totally soluble form that is immediately available to the plant. Cal-Mag Special has most of its nitrogen in the nitrate form making it ideal as a dark weather feed where the conversion of nitrogen to the nitrate form in the

soil media could be a problem. This formula was designed to meet the nutritional needs of a variety crop. Potash has been elevated to promote bract size and color. It will also produce sturdier stems that will help reduce breakage when sleveing. High calcium will push leaf expansion, prevent inter veinal chlorosis and improve photosynthesis. Molybdenum has been elevated to meet the demands of a poinsettia crop in converting this high nitrate based fertilizer into an amine within the plant. Iron has also been increased to allow production at a media pH range of 6.5 to 6.7.

This material dissolves completely in tap water or well water. It will dissolve almost instantly in hot water. Its ability to stay in solution without precipitation makes it ideal for applying by tank, spray rig, or through all injector systems and even the finest misting nozzles.

Guaranteed Analysis (For continuous liquid feeding)			
14-3-20+	Percent	Lbs/Ton	Concentration
Total Nitrogen	14%	300	200 PPM as N
1.72% Ammoniacal N			
12.28% Nitrate Nitrogen			
Available Phosphate (P ₂ O ₅)	3%	60	43 PPM as P ₂ O ₅
Soluble Potash (K ₂ O)	20%	400	285 PPM as K ₂ O
Calcium (Ca)	4.0%	80	57 PPM as Ca
Magnesium (Mg)	2.0%	40	29 PPM as Mg
Boron (B)	0.02%	0.4	0.29 PPM as B
Copper (Cu)	0.03%	0.6	0.43 PPM as Cu
0.03% Chelated Copper (Cu)			
Iron (Fe)	0.10%	2	1.5 PPM as Fe
0.10% Chelated Iron (Fe)			
Manganese (Mn)	0.03%	0.6	0.43 PPM as Mn
0.03% Chelated Manganese (Mn)			
Molybdenum (Mo)	0.0006%	0.012	0.01 PPM as Mo
Zinc (Zn)	0.025%	0.5	0.36 PPM as Zn
0.025% Chelated Zinc (Zn)			

Derived from Ammonium Nitrate, Ammonium Phosphate, Calcium Nitrate, Potassium Nitrate, Magnesium Nitrate, Borax, Sodium Molybdate, and the EDTA form of Copper, Iron, Manganese and Zinc. Potential basicity equivalent to 176 lbs. Calcium Carbonate per ton.

MIXING RATE FOR 100 PPM NITROGEN

HOSE END SPRAYER: 1:15 ratio-Premix 1.43 oz. in 1 gallon (10.71 grams per liter).

TANK: 0.10 oz. per gallon (0.71 grams per liter).

PROPORTIONER: 1:100 ratio use 9.52 oz. per gal. of concentrate (71 grams per liter).

OTHER RATIOS: Multiply ratio times weight divided by 100.

OTHER PPM: Multiply desired PPM times weight divided by 100. Increase or decrease PPMN according to crop response.

NITROGEN PARTS PER MILLION CHART

Parts per Million	50	100	150	200	300	400
Injector Ratios	Ounces required per gal of concentrate					
1:15	.71	1.43	2.14	2.86	4.28	5.71
1:50	2.38	4.76	7.14	9.52	14.28	19.04
1:100	4.76	9.52	14.28	19.04	28.56	38.08
1:200	9.52	19.04	28.56	38.08	57.12	*
1:300	14.28	28.56	42.84	57.12	*	*

EC (+ - 10%) mmhos/cm .35 .71 1.06 1.42 2.12 2.83

*Maximum solubility approx. 3 lbs 8 ozs. per gallon

To Order Use Code:

25 lb Bag: 140320+

