

Cal Special

Cal Special 20-0-20^{PLUS} was specifically formulated as an alternative to the use of calcium nitrate mixtures which tend to raise the pH of the growing media. 20-0-20 has a neutral pH with more than half of its nitrogen in the nitrate form. It contains over 6.5% calcium in a readily available form. It is a good alternate or occasional feed for maintaining calcium levels in almost any crop that requires this element. It is one of the most useful additions to any crops fertility requirements and should be considered as an occasional feed in almost all growing situations.

Caution: Contains Calcium and should not be mixed in concentrate tank with any fertilizer containing phosphorous. Inject using a separate concentrate tank or alternate injection with regular fertilizer.

MIXING RATE FOR 200 PPM NITROGEN HOSE END SPRAYER:
 1:15 ratio- Premix 2 oz. per gallon (15 grams per litre).
TANK: 0.13 oz. per gallon (1 gram per litre).
PROPORTIONER: 1:100 ratio use 13.33 oz. per gal. of concentrate (100 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.

Guaranteed Analysis (For continuous liquid feeding)			
20-0-20+ Cal Special	Percent	Lbs/Ton	Concentration at 200 PPM
Total Nitrogen (N)	20%	400	200 PPM as N
0.3% Ammonical Nitrogen			
10.96% Nitrate Nitrogen			
8.74% Urea Nitrogen			
Soluble Potash (K ₂ O)	20%	400	200 PPM as K ₂ O
Calcium (Ca)	6.46%	129	64 PPM as Ca
Magnesium (Mg)	0.22%	4.4	2.2 PPM as Mg
0.22% Water Soluble Magnesium (Mg)			
Sulfur (S)	0.12%	2.4	1.2 PPM as S
Boron (B)	0.02%	0.4	0.20 PPM as B
Copper (Cu)	0.05%	1.0	0.50 PPM as Cu
0.05% Water Soluble Copper (Cu)			
Iron (Fe)	0.10%	2.0	1.0 PPM as Fe
0.10% Chelated Iron (Fe)			
Manganese (Mn)	0.05%	1.0	0.50 PPM as Mn
0.05% Water Soluble Manganese (Mn)			
Molybdenum (Mo)	0.001%	0.02	0.01 PPM as Mo
Zinc (Zn)	0.049%	0.98	0.49 PPM as Zn
0.05% Water Soluble Zinc (Zn)			
Derived from Potassium Nitrate, Magnesium Sulphate, Borax, Sodium Molybdate, Copper Sulfate, Iron EDTA, Manganese Sulfate and Zinc Sulfate. Potential basicity equivalent to 45 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	3.33	4.99	6.66	9.99
1:100	6.66	9.99	14.98	22.47
1:150	9.99	14.98	19.98	29.97
1:200	13.33	19.99	26.66	39.99
1:300	19.99	29.98	39.98	59.97
Based on 1/2 gallon per square foot coverage. Two Tablespoons equals One Ounce (approximately) One Cup equals One Pound (approximately)				

Conductivity of 20-0-20+ using distilled water mixed at: (allow +/- 10%)	
50 PPM Nitrogen =	.21 Millimhos/CM
100 PPM Nitrogen =	.41 Millimhos/CM
150 PPM Nitrogen =	.62 Millimhos/CM
200 PPM Nitrogen =	.82 Millimhos/CM
300 PPM Nitrogen =	1.23 Millimhos/CM
400 PPM Nitrogen =	1.64 Millimhos/CM
500 PPM Nitrogen =	2.05 Millimhos/CM