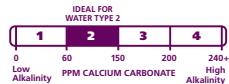


Peters Excel®

SKU# G99145, G99145C



PRODUCT ANALYSIS AND RATES

15-5-15

CAL-MAG SPECIAL
with black iron

Excellent all-purpose formulation combines high Nitrate and low Phosphate with extra Calcium and Magnesium. Ideal for Type 2 irrigation water.

- A (All-Purpose) formulation for constant, balanced nutrition
- Ideal in operations irrigating with Water Type 2
- Contains a complete range of essential micronutrients

GUARANTEED ANALYSIS 15-5-15

Total nitrogen (N)	15%
1.4% Ammoniacal Nitrogen	
11.8% Nitrate Nitrogen	
2.1% Urea Nitrogen	
Available Phosphate (P ₂ O ₅)	5%
Soluble Potash (K ₂ O)	15%
Calcium (Ca)	5.0%
Magnesium (Mg)	2.0%
2.0% Water Soluble Magnesium (Mg)	
Boron (B)	0.0187%
Copper (Cu)	0.0187%
0.0187% Water Soluble Copper (Cu)	
Iron (Fe)	0.075%
0.075% Chelated Iron (Fe)	
Manganese (Mn)	0.0375%
0.0375% Water Soluble Manganese (Mn)	
Molybdenum (Mo)	0.0075%
Zinc (Zn)	0.0375%
0.0375% Water Soluble Zinc (Zn)	

Derived from: Urea Phosphate, Potassium Nitrate, Ammonium Nitrate, Calcium Nitrate, Magnesium Nitrate, Sodium Molybdate, Iron DTPA, Iron EDTA, Boric Acid, Iron HBED, Manganese Sulfate, Copper Sulfate, Zinc Sulfate.

MIXING FOR WATERING CANS, SPRAY TANKS (NO INJECTORS)		
Amount of Fertilizer*	+ Amount of Water (gallons)	=Approx.ppm N
1 tsp	1	194
1 tbs	2	291
1 cup	25	372

*level measurements

1 pound of fertilizer + 100 gallons of water = 179.8 ppm N

PRODUCT PROPERTIES	
Potential Basicity	133.77 lbs calcium carbonate equivalent per ton
Conductivity of 100 ppm N	0.69 mmhos/cm
Maximum Solubility	3 lbs/gal

WEIGHT (IN OUNCES) OF PRODUCT NEEDED TO MIX ONE GALLON OF CONCENTRATE						
Target Fertilizer Concentration (N/ppm) After Dilution	Common Injector Ratios					EC (mmhos/cm) of Target Feed Rate After Dilution
	1:15	1:100	1:128	1:200	1:300	
25	0.3	2.3	2.9	4.5	6.8	0.17
50	0.7	4.5	5.8	9.0	13.5	0.35
75	1.0	6.8	8.6	13.5	20.3	0.52
100	1.4	9.0	11.5	18.0	27.0	0.69
125	1.7	11.3	14.4	22.5	33.8	0.86
150	2.0	13.5	17.3	27.0	40.5	1.04
175	2.4	15.8	20.2	31.5	47.3	1.21
200	2.7	18.0	23.0	36.0	***	1.38
250	3.4	22.5	28.8	45.0	***	1.73
300	4.1	27.0	34.6	***	***	2.07
350	4.7	31.5	40.3	***	***	2.42
400	5.4	36.0	46.1	***	***	2.76
450	6.1	40.5	***	***	***	3.11
500	6.8	45.0	***	***	***	3.45
600	8.1	***	***	***	***	4.14
*** Exceeds maximum solubility.						

GALLONS OF WATER REQUIRED TO DISSOLVE ONE 25 LB BAG OF FERTILIZER						
Target Fertilizer Concentration (N/ppm) After Dilution	Injector Ratios					EC (mmhos/cm) of Target Feed Rate After Dilution
	1:15	1:100	1:128	1:200	1:300	
25	1185.2	177.8	138.9	88.9	59.3	0.17
50	592.6	88.9	69.4	44.4	29.6	0.35
75	395.1	59.3	46.3	29.6	19.8	0.52
100	296.3	44.4	34.7	22.2	14.8	0.69
125	237.0	35.6	27.8	17.8	11.9	0.86
150	197.5	29.6	23.1	14.8	9.9	1.04
175	169.3	25.4	19.8	12.7	8.5	1.21
200	148.1	22.2	17.4	11.1	***	1.38
250	118.5	17.8	13.9	8.9	***	1.73
300	98.8	14.8	11.6	***	***	2.07
350	84.7	12.7	9.9	***	***	2.42
400	74.1	11.1	8.7	***	***	2.76
450	65.8	9.9	***	***	***	3.11
500	59.3	8.9	***	***	***	3.45
600	49.4	***	***	***	***	4.14
*** Exceeds maximum solubility.						