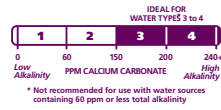


Peters Excel®

pHLow®

SKU# G99002



ACID HAMMER

Acid Hammer is formulated for acid loving plants and reducing the pH in growing media.

- Appropriate for Water Types 3 and 4
- Immediately reduces water alkalinity reducing or eliminating the need to use mineral acids.
- Prevents/ fights excessive pH rise in the root zone as the plants take up the fertilizer
- Helps maintain green foliage on iron-inefficient plants

GUARANTEED ANALYSIS 21-7-7

Total Nitrogen (N)	21%
14.0% Ammoniacal Nitrogen	
7.0% Nitrate Nitrogen	
Available Phosphate (P ₂ O ₅)	7%
Soluble Potash (K ₂ O)	7%
Magnesium (Mg)	0.4%
0.4% Water Soluble Magnesium (Mg)	
Sulfur	10.1%
10.1% Combined Sulfur (S)	
Boron (B)	0.027%
Copper (Cu)	0.027%
0.027% Chelated Copper (Cu)	
Iron (Fe)	0.161%
0.161% Chelated Iron (Fe)	
Manganese (Mn)	0.051%
0.051% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0106%
Zinc (Zn)	0.055%
0.055% Chelated Zinc (Zn)	

Derived from: Ammonium Sulfate, Ammonium Nitrate, Monopotassium Phosphate, Phosphoric Acid, Potassium Nitrate, Magnesium Sulfate, Boric Acid, Copper EDTA, Iron EDTA, Manganese EDTA, Sodium Molybdate, Zinc EDTA

USE INSTRUCTIONS

Dilute fertilizer in water per the mixing charts below. If trying to reduce the pH of a high pH growing media, apply at 200 to 300 ppm N; test pH after a few days and reapply if needed.

USE RESTRICTIONS

Do not mix in the same stock tank with Calcium containing fertilizers. Do not use with pure irrigation waters (alkalinity vless than 100 ppm)

CONCENTRATION (ppm N) FERTILIZER	AVERAGE ALKALINITY REDUCTION (ppm TOTAL ALKALINITY)
100	106
200	119
300	130
400	141

PRODUCT PROPERTIES	
Potential Acidity	1,218 lbs calcium carbonate equivalent per ton
Conductivity of 100 ppm N	0.85 mmhos/cm
Maximum Solubility	3.5 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	0.2	1.6	2.1	3.2	4.8	0.21
50	0.5	3.2	4.1	6.4	9.6	0.43
75	0.7	4.8	6.2	9.6	14.5	0.64
100	1.0	6.4	8.2	12.9	19.3	0.85
125	1.2	8.0	10.3	16.1	24.1	1.06
150	1.4	9.6	12.3	19.3	28.9	1.28
175	1.7	11.3	14.4	22.5	33.8	1.49
200	1.9	12.9	16.5	25.7	38.6	1.70
250	2.4	16.1	20.6	32.2	48.2	2.13
300	2.9	19.3	24.7	38.6	***	2.55
350	3.4	22.5	28.8	45.0	***	2.98
400	3.9	25.7	32.9	51.4	***	3.40
450	4.3	28.9	37.0	***	***	3.83
500	4.8	32.2	41.2	***	***	4.25
600	5.8	38.6	49.4	***	***	5.10

***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	1658.9	248.8	194.4	124.4	82.9	0.21
50	829.4	124.4	97.2	62.2	41.5	0.43
75	553.0	82.9	64.8	41.5	27.6	0.64
100	414.7	62.2	48.6	31.1	20.7	0.85
125	331.8	49.8	38.9	24.9	16.6	1.06
150	276.5	41.5	32.4	20.7	13.8	1.28
175	237.0	35.5	27.8	17.8	11.8	1.49
200	207.4	31.1	24.3	15.6	10.4	1.70
250	165.9	24.9	19.4	12.4	8.3	2.13
300	138.2	20.7	16.2	10.4	***	2.55
350	118.5	17.8	13.9	8.9	***	2.98
400	103.7	15.6	12.2	7.8	***	3.40
450	92.2	13.8	10.8	***	***	3.83
500	82.9	12.4	9.7	***	***	4.25
600	69.1	10.4	8.1	***	***	5.10

***Exceeds maximum solubility