



13-2-13 Plus Ca and Mg Plug Special

Peters[®] EXCEL[®]
Water Soluble Fertilizer

PRODUCT FEATURES

- Specially designed for plug and bedding plant production.
- Excellent for many pot crops.
- Over 91% nitrate nitrogen
- Best for water with low to medium alkalinity at or below 120 mg CaCO₃/l.
- One bag system contains nitrogen, phosphorus, potassium, calcium, magnesium and minor elements for soilless mixes
- Low phosphorus helps reduce plant stretch
- Blends 6% calcium and 3% magnesium

STOCK NO. 91490 / 93

- for strong growth and improved color
- Can be mixed with all Peters EXCEL products
- One tank mixing compatible in concentrate with calcium nitrate and/or magnesium nitrate
- Maximum solubility 5 lbs./gal.
- This product is covered by one or more of the following US patents or foreign counterparts thereof: 5,171,349; 5,395,418; 5,492,553
- Also available in No Dye version

GUARANTEED ANALYSIS

For Continuous Liquid Feed Programs

Total Nitrogen (N).....	13%
0.3% ammoniacal nitrogen	
11.9% nitrate nitrogen	
0.8% urea nitrogen	
Available phosphate (P ₂ O ₅).....	2%
Soluble potash (K ₂ O).....	13%
Calcium (Ca).....	6%
Magnesium (Mg) (Total)	3%
3.0% water soluble magnesium (Mg)	
Boron (B).....	0.006%
Copper (Cu).....	0.028%
0.028% water soluble copper (Cu)	
Iron (Fe)	0.05%
0.05% chelated iron (Fe)	
Manganese (Mn).....	0.028%
0.028% water soluble manganese (Mn)	
Molybdenum (Mo)	0.0075%
Zinc (Zn).....	0.028%
0.028% water soluble zinc (Zn)	

Derived from: potassium nitrate, calcium nitrate, magnesium nitrate, urea phosphate, boric acid, copper sulfate, iron EDTA, manganese sulfate, ammonium molybdate, zinc sulfate.

Potential basicity: 340 lb. calcium carbonate equivalent per ton.

WARNING: This fertilizer contains molybdenum (Mo). The application of fertilizing materials containing molybdenum (Mo) may result in forage crops containing levels of molybdenum (Mo) which are toxic to ruminant animals.

Distributed By:



The Scotts Company
14111 Scottslawn Road • Marysville, Ohio 43041
1-800-492-8255



PROFESSIONAL
HORTICULTURE

Water
Soluble
Fertilizers

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Peters® EXCEL® 13-2-13 Plus Ca and Mg Plug Special

(Suggestions for Commercial Growers)

100 ppm N Solution Contains the Following Elemental ppm		
Ammonium-N (NH ₄ - N)		2.3
Nitrate-N (NO ₃ - N)		91.5
Urea-N (Urea-N)		6.2
Phosphorus (P)		6.7
Potassium (K)		83.3
Calcium (Ca)		46.2
Magnesium (Mg)		23.1
Boron (B)		.046
Copper (Cu)		.215
Iron (Fe)		.385
Manganese (Mn)		.215
Molybdenum (Mo)		.0577
Zinc (Zn)		.215

Crop Type	Continuous Feeding ppm N (Constant Liquid Feeding)	Periodic Feeding ppm N (Pulse Feeding)
Bedding Plants (Flats)	100–150	200–250
Bedding Plants (Pots/Baskets)	125–175	200–275
Plugs	50–125	150–200
Potted Geraniums	200–300	350–400
Potted Poinsettias	200–300	350–400
Potted Easter Lilies	200–300	350–400
Potted Chrysanthemums	200–300	350–400
Potted Tropical Foliage	150–200	250–300
Landscape/Outdoors	200–300	400–600

Ounces of Peters EXCEL 13-2-13 Per Gallon of Concentrate								
Concentration (ppm)			Injector Ratios*					Electrical Conductivity (E.C.)**
N	Ca	Mg	1:15	1:100	1:128	1:200	1:300	mmhos/cm
25	12	6	0.38	2.60	3.32	5.19	7.79	0.23
50	23	12	0.77	5.19	6.64	10.38	15.57	0.46
75	35	17	1.16	7.79	9.96	15.57	23.36	0.69
100	46	23	1.54	10.38	13.29	20.76	31.14	0.92
150	69	35	2.31	15.57	19.93	21.14	46.74	1.38
200	92	46	3.08	20.76	26.17	41.52	62.28	1.84
300	138	69	4.62	31.14	39.86	62.28	***	2.76
400	184	92	6.16	41.52	53.16	***	***	3.68

Approximate Gallons Required to Dissolve One 25 lb. Bag of 13-2-13				
Concentration (ppm)			Injector Ratios	
N	Ca	Mg	1:100	1:200
25	12	6	155	77.5
50	23	12	78	39
75	35	17	52	26
100	46	23	39	19.5
150	69	35	26	13
200	92	46	20	10
300	138	69	13	6.5
400	184	92	10	***

* Use the oz./gal. to obtain suggested or desired ppm N, Ca or Mg. To customize, values are additive. For example, if 275 ppm N is desired, using a 1:100 injector, add 20.76 oz. (200 ppm N) and 7.79 oz. (75 ppm N) to yield 28.55 oz./gal. concentrate. To convert oz./gal. to grams/liters, multiply by 7.5.

** E.C. measurements do not include E.C. of plain water. Since Peters EXCEL technology fertilizers reduce overall water alkalinity, the electrical conductivity (E.C.) of fertilizer solutions may be slightly affected. E.C. calculations are based upon a 100 ppm nitrogen solution with reverse osmosis water.

***Limit of solubility 5 lbs./gal. (80 oz./gal.)

Small Volume Rate: 1 level tsp/gal = 176.4 ppm N 100 gal. tank - no injector: 1lb./100 gal. = 154.1 ppm N.

SUGGESTIONS FOR USE

The chemical composition of the irrigation water applied to crops has a major influence on the nutrients available to plants in the long term. Before selecting and/or designing a fertilizer program, first test the irrigation water to better understand pH and alkalinity.

Do not mix Peters® EXCEL® technology fertilizers in the concentrate with fertilizers containing ammonium phosphates or potassium phosphates, such as regular Peters Professional® Water Soluble Fertilizer or other brands of water soluble fertilizers.

In concentrated solution, do not mix calcium-containing fertilizers with sulfuric acid or sulfate containing fertilizers such as Peters S.T.E.M. or Epsom Salts (magnesium sulfate).

Continuous feeding is recommended over periodic or pulse feeding as this practice provides a more uniform and optimal feed program.

Use the Scotts Testing Laboratory for more reliable media, solution and tissue test results. Call 1-877-HORT LAB for technical assistance. Contact your Scotts representative or Scotts Customer Service at 1-800-492-8225 for more information.