



13-4-12 PALM SPECIAL

DESCRIPTION: A PROFESSIONAL 8 TO 9 MONTH CONTROLLED RELEASE FERTILIZER SPECIFICALLY FORMULATED FOR PALMS WITH A 3:1:3 RATIO OF NITROGEN, PHOSPHATE AND POTASH WITH EXTRA MAGNESIUM AND A COMPLETE SET OF MICRONUTRIENTS.

BENEFITS:

- APEX® 13-4-12 PALM SPECIAL releases most of the primary nutrients through a process of diffusion using POLYON® Reactive Layers Coating (RLC) controlled release technology.
- Most of the primary nutrients are coated slow release for safe, predictable response.
- Release of most of the primary nutrients are not significantly affected by media type, moisture level, pH, or microbial activity.
- Includes an extensive package of minor elements.



SOIL/MEDIA TEMPERATURE RELEASE RATES

50°F 10.0°C	= 11-12 months
60°F 15.5°C	= 9-10 months
70°F 21.0°C	= 8-9 months
80°F 26.5°C	= 6-7 months

APEX 13-4-12 PALM SPECIAL GUARANTEED ANALYSIS:

U.S. STANDARD

TOTAL NITROGEN (N)*	13.00%
2.60% Ammoniacal Nitrogen	
1.60% Nitrate Nitrogen	
8.80% Urea Nitrogen	
AVAILABLE PHOSPHATE (P ₂ O ₅)*	4.00%
SOLUBLE POTASH (K ₂ O)*	12.00%
Magnesium (Mg)	4.00%
Sulfur (S)*	9.00%
Copper (Cu)	0.05%
Iron (Fe)	0.35%
Manganese (Mn)	0.08%
Molybdenum (Mo)	0.0006%
Zinc (Zn)	0.05%

Derived from Polymer-Coated Urea, Polymer-Coated Ammonium Nitrate, Polymer-Coated Ammonium Phosphate, Monoammonium Phosphate, Polymer-Coated Sulfate of Potash, Sulfate of Potash, Polymer-Coated Sulfate of Potash-Magnesia, Sulfate of Potash-Magnesia, Magnesium Carbonate, Magnesium Oxide, Magnesium Sulfate, Copper Oxide, Copper Sulfate, Ferric Oxide, Ferrous Sulfate, Iron Oxy-sulfate, Iron Sulfate, Manganese Oxide, Manganese Sulfate, Sodium Molybdate, Zinc Oxide and Zinc Sulfate.

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*A portion of the nitrogen, phosphate, potash and sulfur have been coated to provide 13.00% coated slow release nitrogen (N), 4.00% coated slow release available phosphate (P₂O₅), 7.50% coated slow release soluble potash (K₂O), and 4.00% coated slow release sulfur (S).

APEX 13-1.7-9.9 PALM SPECIAL GUARANTEED ANALYSIS:

ELEMENTAL

TOTAL NITROGEN (N)**	13.00%
2.60% Ammoniacal Nitrogen	
1.60% Nitrate Nitrogen	
8.80% Urea Nitrogen	
TOTAL PHOSPHORUS (P)**	1.70%
TOTAL POTASSIUM (K)**	9.90%
Magnesium (Mg)	4.00%
Sulfur (S)**	9.00%
Copper (Cu)	0.05%
Iron (Fe)	0.35%
Manganese (Mn)	0.08%
Molybdenum (Mo)	0.0006%
Zinc (Zn)	0.05%

Derived from Polymer-Coated Urea, Polymer-Coated Ammonium Nitrate, Polymer-Coated Ammonium Phosphate, Monoammonium Phosphate, Polymer-Coated Sulfate of Potash, Sulfate of Potash, Polymer-Coated Sulfate of Potash-Magnesia, Sulfate of Potash-Magnesia, Magnesium Carbonate, Magnesium Oxide, Magnesium Sulfate, Copper Oxide, Copper Sulfate, Ferric Oxide, Ferrous Sulfate, Iron Oxy-sulfate, Iron Sulfate, Manganese Oxide, Manganese Sulfate, Sodium Molybdate, Zinc Oxide and Zinc Sulfate.

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**A portion of the nitrogen, phosphorus, potassium and sulfur have been coated to provide 13.00% coated slow release nitrogen (N), 1.70% coated slow release total phosphorus (P), 6.20% coated slow release total potassium (K), and 4.00% coated slow release sulfur (S).

APPLICATION RATES: (Call for rates on larger containers.)

Use LOW rate for low feeding, sensitive plants or under high soil temperatures.

Use MEDIUM rate for medium to moderately heavy feeding plants.

Use HIGH rate only for heavy feeding hardy plants.

These application rates are based on the average temperature at the fertilizer location of 70° F (21.0°C).

Increase fertilizer application rates by 20% if average monthly temperatures are lower than 60°F (15.5°C).

Lower application rates by 20% if average monthly temperatures are greater than 80°F (26.5°C).

Techsheets, MSDS and other information on APEX products available at: www.apexfertilizer.com

DRY MEASURE			
Level Measure	Grams	Oz.(Wt.)	
1 teaspoon (tsp.)	7.1	0.25	
1 tablespoon (tblsp.)	20.8	0.73	
1/4 cup	64.6	2.28	
1/2 cup	132.1	4.66	

POLYON SPOONS				
Size	Grams	Oz. (Wt.)	Size	Grams Oz.(Wt.)
1	11.9	0.42	5	40.1 1.41
2	17.1	0.60	6	59.0 2.08
3	12.4	0.79	7	76.0 2.68
4	28.0	0.99	8	94.3 3.33

TOPDRESS CONTAINER: Plant Nutrient Requirements / Uniformly apply (topdress) product onto the container surface using the amounts listed below.

VOLUME (gal.)	DIAMETER	LOW	MEDIUM	HIGH	DIAMETER (mm)	LOW	MEDIUM	HIGH
1 gallon	6 inches	10 g	15 g	20 g	100mm	2.0 g	3.0 g	4.0 g
2 gallons	8 inches	22 g	33 g	44 g	125mm	4.0 g	6.0 g	8.0 g
3 gallons	10 inches	40 g	60 g	80 g	150mm	7.0 g	10.0 g	13.0 g
5 gallons	12 inches	60 g	90 g	120 g	175mm	12.0 g	18.0 g	24.0 g
7 gallons	14 inches	85 g	130 g	175 g	200mm	18.0 g	27.0 g	36.0 g
10 gallons	17 inches	160 g	230 g	300 g	250mm	40.0 g	60.0 g	80.0 g
15 gallons	18 inches	200 g	300 g	400 g	300mm	55.0 g	80.0 g	105.0 g

INCORPORATION: Plant Nutrient Requirements / Uniformly mix (incorporate) nursery fertilizer into potting media as follows:

POUNDS PER CUBIC YARD	LOW 10	MED 15	HIGH 20	KILOGRAMS PER CUBIC METRES	LOW 6	MED 9	HIGH 12
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PLANTING BED: FIELD / Plant Nutrient Requirements (incorporate if possible or use lower rates) as follows:

POUNDS PER 100 SQ.FT.	LOW 4	MED 7	HIGH 10	KILOGRAMS PER 100 SQ. METRES	LOW 20	MED 34	HIGH 49
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APPLICATION PRECAUTIONS:

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- Trial before use of this product under your local growing conditions, application methods, and desired rates. Avoid application to plants under stress.
- If mixed media is not used within 1 week, leach thoroughly before using.
- Product left in media for more than 1 week will lose longevity resulting in reduced release time and wasted controlled release fertilizer.
- Avoid the use of media processing equipment that could change the integrity of RLC.
- Avoid mounding of fertilizer against base of plant.
- Iron and other plant nutrients can cause staining of cement.
- Keep away from pools, ponds, and other bodies of water.
- When using potting media with higher cation exchange capacities use lower recommended rates of this formulation.
- When using supplemental liquid feed reduce the rate of this formulation accordingly.
- Do not incorporate into media prior to steam sterilization.
- This product is not recommended for dibble applications.
- To avoid buildup of soluble salts, occasional leaching may be necessary.