



# 12-4-12 PALM K

**DESCRIPTION:** A PROFESSIONAL 3 TO 4 MONTH  $\diamond$  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® 12-4-12 PALM K provides safe, controlled release nitrogen from POLYON®.
- Most of the nitrogen is coated slow release for safe predictable response.
- Release of nitrogen is 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 = 5-6 months
- 60°F 15.5°C = 4-5 months
- 70°F 21.0°C = 3-4 months  $\diamond$
- 80°F 26.5°C = 2-3 months

**APEX 12-4-12 PALM K GUARANTEED ANALYSIS:**

**U.S. STANDARD**

TOTAL NITROGEN (N).....	12.00%
5.00% Ammoniacal Nitrogen	
7.00% Urea Nitrogen*	
AVAILABLE PHOSPHATE (P <sub>2</sub> O <sub>5</sub> ).....	4.00%
SOLUBLE POTASH (K <sub>2</sub> O) .....	12.00%
Magnesium (Mg) .....	3.00%
Sulfur (S) .....	13.00%
Copper (Cu) .....	0.05%
Iron (Fe) .....	3.75%
Manganese (Mn).....	0.20%
Molybdenum (Mo).....	0.0006%
Zinc (Zn) .....	0.05%

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

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\*7.00% slowly available urea nitrogen from polymer-coated urea.

**APEX 12-1.7-9.9 PALM K GUARANTEED ANALYSIS:**

**ELEMENTAL**

TOTAL NITROGEN (N).....	12.00%
5.00% Ammoniacal Nitrogen	
7.00% Urea Nitrogen**	
TOTAL PHOSPHORUS (P) .....	1.70%
TOTAL POTASSIUM (K) .....	9.90%
Magnesium (Mg) .....	3.00%
Sulfur (S) .....	13.00%
Copper (Cu) .....	0.05%
Iron (Fe) .....	3.75%
Manganese (Mn).....	0.20%
Molybdenum (Mo).....	0.0006%
Zinc (Zn) .....	0.05%

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

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\*\*7.00% slowly available urea nitrogen from polymer-coated urea.

**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](http://www.apexfertilizer.com)

DRY MEASURE			POLYON SPOONS		
Level Measure	Grams	Oz.(Wt.)	Size	Grams	Oz.(Wt.)
1 teaspoon (tsp.)	6.8	0.24	1	11.7	0.41
1 tablespoon (tblsp.)	22.3	0.79	2	17.8	0.63
1/4 cup	68.5	2.42	3	24.8	0.87
1/2 cup	142.7	5.03	4	30.8	1.09

**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	3.5 g	7 g	10.5 g	100mm	0.7 g	1.4 g	2.1 g
2 gallons	8 inches	8 g	15 g	23 g	125mm	1.5 g	3.0 g	4.5 g
3 gallons	10 inches	13 g	26 g	39 g	150mm	2.0 g	4.0 g	6.0 g
5 gallons	12 inches	20 g	40 g	60 g	175mm	4.0 g	8.0 g	12.0 g
7 gallons	14 inches	30 g	60 g	90 g	200mm	6.0 g	12.0 g	18.0 g
10 gallons	17 inches	50 g	100 g	150 g	250mm	13.0 g	26.0 g	39.0 g
15 gallons	18 inches	70 g	140 g	210 g	300mm	18.0 g	36.0 g	54.0 g

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

POUNDS PER CUBIC YARD	LOW 3.5	MED 7	HIGH 10.5	KILOGRAMS PER CUBIC METRES	LOW 2	MED 4	HIGH 6
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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 1.5	MED 3	HIGH 4.5	KILOGRAMS PER 100 SQ. METRES	LOW 7	MED 14	HIGH 21
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**APPLICATION PRECAUTIONS:**

- 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.
- This APEX formulation is not recommended for use in Greenhouses or Cold frames.
- 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.