



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 EXTENSIVE 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.

POWERED BY
POLYON®
Controlled-Release Fertilizer

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

U.S. STANDARD

GUARANTEED ANALYSIS:

TOTAL NITROGEN (N)	12.00%
5.00% Ammoniacal Nitrogen	
7.00% Urea Nitrogen*	
AVAILABLE PHOSPHATE (P ₂ O ₅)	4.00%
SOLUBLE POTASH (K ₂ 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

ELEMENTAL

GUARANTEED ANALYSIS:

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

DRY MEASURE

Level Measure	Grams	Oz.(Wt.)
1 teaspoon (tsp.)	6.8	0.24
1 tablespoon (tblsp.)	22.3	0.79
1/4 cup	68.5	2.42
1/2 cup	142.7	5.03

CONVERSION TABLE

POLYON SPOONS

Size	Grams	Oz. (Wt.)	Size	Grams	Oz. (Wt.)
1	11.7	0.41	5	41.8	1.47
2	17.8	0.63	6	63.0	2.22
3	24.8	0.87	7	81.9	2.89
4	30.8	1.09	8	98.0	3.46

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 METRE	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.