



24-4-12 TREE & SHRUB

24-1.7-9.9 ELEMENTAL AND METRIC

DESCRIPTION: A PROFESSIONAL, HIGH QUALITY 10 to 12 MONTH* CONTROLLED RELEASE NURSERY FERTILIZER SPECIFICALLY FORMULATED TO MEET THE NUTRITIONAL NEEDS OF CONTAINER GROWN TREES AND SHRUBS.

BENEFITS: 24-4-12 / 24-1.7-9.9 TREE & SHRUB

- APEX 24-4-12 / 24-1.7-9.9 TREE & SHRUB provides the safety and longevity of POLYON™ Reactive Layers Coating (RLC™) controlled release nutrients.
- Release of nutrients is controlled by osmosis and is not affected by media type, moisture level, pH or microbial activity.
- Osmotic release of nutrients is predictable and reliable. Each individually coated nutrient granule has coating thickness calibrated to meet specific nutrient levels consistent with plant demand.

SOIL/MEDIA TEMPERATURE RELEASE RATES		
50°F	10.0°C	= 14 months
60°F	15.5°C	= 12 months
70°F	21.0°C	= 10 months*
80°F	26.5°C	= 8 months
90°F	32.0°C	= 6 months

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

Use **low** rate for low feeding, sensitive plants.
Use **medium** rate for medium to moderately heavy feeding plants.
Use **high** rate for heavy feeding hardy plants.

TOP DRESSING: Rates Per Container

Uniformly apply (topdress) product onto the container surface using the amounts listed below.



Tech sheets, MSDS and other information on APEX products available at www.apexfertilizer.com

CONVERSION TABLE		
Rounded Measure	Grams	Oz. (Wt.)
1 teaspoon (tsp.)	5	.18
1 Tablespoon (tbs.)	16	.56
1/4 cup	60	2.1
1/2 cup	120	4.2

CONTAINER VOLUME (gal.)	CONTAINER DIAMETER (in.)	GRAMS TOPDRESS PER CONTAINER Plant Nutrient Requirements		
		LOW	MEDIUM	HIGH
1 gallon	6 inches	8 g	12 g	16 g
2 gallons	8 inches	18 g	27 g	36 g
3 gallons	10 inches	31 g	47 g	63 g
5 gallons	12 inches	50 g	75 g	100 g
7 gallons	14 inches	70 g	105 g	140 g
10 gallons	16 inches	125 g	190 g	250 g
15 gallons	18 inches	170 g	250 g	330 g

CONTAINER DIAMETER (mm)	GRAMS TOPDRESS PER CONTAINER Plant Nutrient Requirements		
	LOW	MEDIUM	HIGH
100mm	2.0 g	3.0 g	4.0 g
125mm	3.0 g	5.0 g	7.0 g
150mm	5.0 g	8.0 g	11.0 g
175mm	10.0 g	15.0 g	20.0 g
200mm	15.0 g	22.0 g	30.0 g
250mm	33.0 g	50.0 g	66.0 g
300mm	44.0 g	66.0 g	88.0 g

INCORPORATION: Uniformly mix (incorporate) APEX 24-4-12 / 24-1.7-9.9 TREE & SHRUB nursery fertilizer into potting media as follows:

POUNDS PER CUBIC YARD-PLANT NUTRIENT REQUIREMENTS		
LOW	MEDIUM	HIGH
8	12	16

KILOGRAMS PER CUBIC METRE-PLANT NUTRIENT REQUIREMENTS		
LOW	MEDIUM	HIGH
5	7	9

PLANTING BED: FIELD (incorporate if possible or use lower rates.) APEX 24-4-12 / 24-1.7-9.9 TREE & SHRUB as follows:

POUNDS PER 100 SQ.FT.-PLANT NUTRIENT REQUIREMENTS		
LOW	MEDIUM	HIGH
3	5	7

KILOGRAMS PER 100 SQUARE METRES-PLANT NUTRIENT REQUIREMENTS		
LOW	MEDIUM	HIGH
12	24	36

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 CRF.
- Avoid the use of media processing equipment that could change the integrity of RLC coating.
- Avoid mounding of fertilizer against base of plant.
- CAUTION: This product contains Molybdenum. Use of this product at rates other than those recommended, may cause injury to susceptible plants.

- 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.

GUARANTEED ANALYSIS:

TOTAL NITROGEN (N)*	24.00%
0.80% Ammoniacal Nitrogen	
3.30% Nitrate Nitrogen	
19.90% Urea Nitrogen ♦	
AVAILABLE PHOSPHATE (P ₂ O ₅)*	4.00%
SOLUBLE POTASH (K ₂ O)*	12.00%
Magnesium (Mg)	0.50%
Copper (Cu)	0.05%
Iron (Fe)	0.50%
Manganese (Mn)	0.05%
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%

TOTAL NITROGEN (N)**	24.00%
0.80% Ammoniacal Nitrogen	
3.30% Nitrate Nitrogen	
19.90% Urea Nitrogen ♦	
TOTAL PHOSPHORUS (P)**	1.70%
TOTAL POTASSIUM (K)**	9.90%
Magnesium (Mg)	0.50%
Copper (Cu)	0.05%
Iron (Fe)	0.50%
Manganese (Mn)	0.05%
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%

Derived from Polymer Coated Urea, Polymer Coated Ammonium Phosphate, Polymer Coated Potassium Sulfate, Copper Sulfate, Magnesium Carbonate, Ferrous Oxide, Ferrous Sulfate, Magnesium Oxide, Manganese Oxide, Sodium Molybdate, Zinc Sulfate and Zinc Oxide.

* The nitrogen, phosphate and potash materials in this product have been coated to provide 22.80% coated slow release nitrogen (N), 3.80% coated slow release available phosphate (P₂O₅), 11.40% coated slow release potash (K₂O).

** The nitrogen, phosphorus, and potassium in this product have been coated to provide 22.80% coated slow release nitrogen (N), 1.61% coated slow release phosphorus (P), 9.40% coated slow release potassium (K).

♦ 19.90% slowly available nitrogen from polymer coated urea nitrogen.

PRODUCT COVERAGE: 50 LB. BAGS / 22.68 Kg. **MANUFACTURED IN THE U.S.A.** 74164 (APEX/TBR1-10-06)

HANDLING PRECAUTIONS: CAUTION: KEEP OUT OF REACH OF CHILDREN
MSDS: See Reverse **HARMFUL IF SWALLOWED DO NOT INHALE**