



# 23-6-12 TREE & SHRUB

# 23-2.5-9.9 ELEMENTAL AND METRIC

**DESCRIPTION: A PROFESSIONAL, HIGH QUALITY 8 TO 9 MONTH\* CONTROLLED RELEASE NURSERY FERTILIZER SPECIFICALLY FORMULATED TO MEET THE NUTRITIONAL NEEDS OF CONTAINER GROWN TREES AND SHRUBS.**

**BENEFITS: 23-6-12 / 23-2.5-9.9 TREE & SHRUB**

- APEX 23-6-12 / 23-2.5-9.9 TREE & SHRUB provides the improved safety of the POLYON® Reactive Layers Coating (RLC™) controlled release technology.
- Each individually coated nutrient granule has a coating thickness calibrated to meter specific nutrient levels at the growing temperature consistent with plant demand.
- Nutrient release is not affected by media type, moisture level, pH, or microbial activity.

**SOIL/MEDIA TEMPERATURE**

**RELEASE RATES**

50°F	10.0°C	= 13 months
60°F	15.5°C	= 11 months
70°F	21.0°C	= 9 months*
80°F	26.5°C	= 7 months
90°F	32.0°C	= 5 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 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](http://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	7 g	10 g	13 g
2 gallons	8 inches	14 g	21 g	28 g
3 gallons	10 inches	24 g	36 g	48 g
5 gallons	12 inches	40 g	60 g	80 g
7 gallons	14 inches	56 g	84 g	112 g
10 gallons	16 inches	100 g	150 g	200 g
15 gallons	18 inches	130 g	190 g	250 g

CONTAINER DIAMETER (mm)	GRAMS TOPDRESS PER CONTAINER Plant Nutrient Requirements		
	LOW	MEDIUM	HIGH
100mm	1.0 g	2.0 g	3.0 g
125mm	3.0 g	4.0 g	5.0 g
150mm	4.0 g	6.0 g	8.0 g
175mm	8.0 g	12.0 g	16.0 g
200mm	12.0 g	18.0 g	24.0 g
250mm	25.0 g	38.0 g	50.0 g
300mm	34.0 g	51.0 g	68.0 g

**INCORPORATION: Uniformly mix (incorporate) APEX 23-6-12 / 23-2.5-9.9 TREE & SHRUB nursery fertilizer into potting media as follows:**

POUNDS PER CUBIC YARD-PLANT NUTRIENT REQUIREMENTS		
LOW	MEDIUM	HIGH
7	10	13

KILOGRAMS PER CUBIC METRE-PLANT NUTRIENT REQUIREMENTS		
LOW	MEDIUM	HIGH
4	6	8

**PLANTING BED: FIELD (incorporate if possible or use lower rates.) APEX 23-6-12 / 23-2.5-9.9 TREE & SHRUB as follows:**

POUNDS PER 100 SQ.FT.-PLANT NUTRIENT REQUIREMENTS		
LOW	MEDIUM	HIGH
2	4	6

KILOGRAMS PER 100 SQUARE METRES-PLANT NUTRIENT REQUIREMENTS		
LOW	MEDIUM	HIGH
9	18	27

**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 damage the integrity of RLC coating.
- Avoid mounding of fertilizer against base of plant.
- CAUTION: Application of fertilizer materials containing Molybdenum (Mo) may result in forage crops containing levels of Molybdenum (Mo) that are toxic to ruminant animals.

- 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)*	23.00%
1.00% Ammoniacal Nitrogen (N)	
3.00% Nitrate Nitrogen (N)	
19.00% Urea Nitrogen (N)***	
AVAILABLE PHOSPHATE (P <sub>2</sub> O <sub>5</sub> )*	6.00%
SOLUBLE POTASH (K <sub>2</sub> O)*	12.00%
Magnesium (Mg)	0.50%
Copper (Cu)	0.05%
Iron (Fe)	0.25%
Manganese (Mn)	0.05%
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%

TOTAL NITROGEN (N)**	23.00%
1.00% Ammoniacal Nitrogen (N)	
3.00% Nitrate Nitrogen (N)	
19.00% Urea Nitrogen (N)***	
TOTAL PHOSPHORUS (P)**	2.50%
TOTAL POTASSIUM (K)**	9.90%
Magnesium (Mg)	0.50%
Copper (Cu)	0.05%
Iron (Fe)	0.25%
Manganese (Mn)	0.05%
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%

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

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\* The nitrogen, phosphate and potash in this product have been coated to provide 21.80% coated slow release Nitrogen (N), 5.70% coated slow release available Phosphate (P<sub>2</sub>O<sub>5</sub>), 11.40% coated slow release Soluble Potash (K<sub>2</sub>O).

\*\* The nitrogen, phosphorus and potassium in this product have been coated to provide 21.80% coated slow release Nitrogen (N), 2.37% coated slow release Phosphorus (P), 9.40% coated slow release Potassium (K).

\*\*\* 19.00% slowly available nitrogen from polymer coated urea nitrogen.

**PRODUCT COVERAGE:**

50 LB. BAGS / 22.68 Kg.

74166 (APEX/TB R11-8-05)

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