



THE ONE TO GROW WITH



PRODUCT GUIDE



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NPK

General Description

The perfect combination of nutrients and release longevities are provided in this homogeneous pellet. Each pellet contains nitrate, ammoniacal nitrogen, phosphorus, and potassium to deliver healthy, holistic growth to ornamental crops.

- This polymer-coated NPK is the industry standard for crop consistency.
- Ideal for GREENHOUSE, CONTAINER NURSERY STOCK, and PROPAGATION.
- Economical source of nitrogen (it is highly recommended to provide supplemental nutrition that includes micronutrients when using NPK formulations).

APEX® 14-14-14 NPK with GAL-Xe^{ONE}® (3-4 months @ 70°F)

Use this product for short-season production with a balanced 1:1:1 ratio of plant nutrition. This product is best for BEDDING, FLOWERING, and FRUITING commercial production crops.

APEX® 19-6-13 NPK with GAL-Xe^{ONE}® (5-6 months @ 70°F)

Use this product to meet the nutritional needs of CONTAINER GROWN ANNUALS and PERENNIALS as a full-season NPK source.

APEX® 19-6-12 NPK with GAL-Xe^{ONE}® (7-8 months @ 70°F)

Use this product to meet the nutritional needs of CONTAINER GROWN ORNAMENTAL TREES and SHRUBS as an NPK source in all growing climates.

APEX® 18-6-12 NPK with GAL-Xe^{ONE}® (10-11 months @ 70°F)

Use this product on full-season crops such as most WOODY ORNAMENTALS and PROPAGATION LINERS and plants grown for SUPERIOR FOLIAGE.

APEX® 13-13-13 NPK with GAL-Xe^{ONE}® (10-11 months @ 70°F)

Use this product for woody ornamentals and propagation. Higher ratio of phosphorus for earlier root development.

APEX® 17-6-12 NPK with GAL-Xe^{ONE}® (12-13 months @ 70°F)

Use this product to provide the nutritional needs of all SEASON LONG CONTAINER GROWN CROPS. Uses include incorporation for baseline feed of WOODY ORNAMENTALS.

APEX® 16-5-11 NPK with GAL-Xe^{ONE}® (14-15 months @ 70°F)

Use this product incorporated in media for containerized plants needing nutrition longer than a full season. This product can be used as a long-term baseline NPK feed for all-season plus production crops.

NPK MINIS

APEX® 18-6-12 NPK Minis with GAL-Xe^{ONE}® (3-4 months at 70°F)

A professional mini-sized homogeneous 3 to 4 month controlled-release fertilizer for propagation and container-grown annuals. All of the nutrients in this product are combined within each uniform coated pellet, ensuring precise distribution and release.

NPK MAX

General Description

Use NPK Max on all FOLIAGE, NURSERY, and GREENHOUSE crops where the ease of application and stand consistency is a must. All NPK MAX formulations have GAL-Xe^{ONE}® polymer-coated primary, secondary, and micronutrients to provide consistent nutrition to the plant-based on stated longevities. Also contains EDTA Iron chelate to keep the iron in a readily accessible form for plant uptake.

APEX® 17-5-11 NPK MAX with GAL-Xe^{ONE}® (3-4 months @ 70°F)

- Longevity for short-term annual greenhouse crops.
- Perfect for short-term ANNUAL crop production.

APEX® 16-5-10 NPK MAX with GAL-Xe^{ONE}® (5-6 months @ 70°F)

- Ideal for ANNUALS with extended shelf life.
- Perfectly suited for herbaceous perennials.
- Incorporate in late winter for seedlings

APEX® 15-5-10 NPK MAX with GAL-Xe^{ONE}® (8-9 months @ 70°F)

- Longevity suited for FULL SEASON crops in most climates.
- Incorporate in late fall to generate root development and will hold until late spring sales.

APEX® 14-5-10 NPK MAX with GAL-Xe^{ONE}® (11-12 months @ 70°F)

- Longevity best suited for incorporation.
- Use for SEASON PLUS BROADLEAF EVERGREENS.

NPK PLUS

General Description

Use NPK Plus formulated to provide the majority of the primary, secondary and minor elements that are essential for healthy root formation and controlled top growth development.

APEX® 19-6-10 NPK Plus with GAL-Xe^{ONE}® (4-5 months @ 70°F)

Use this product to meet the nutritional needs of CONTAINER GROWN ANNUALS and PERENNIALS as a full-season NPK source.

APEX® 16-5-9 NPK Plus with GAL-Xe^{ONE}® (6-7 months @ 70°F)

Use this product to meet the nutritional needs for crops valued for foliage such as ROSES and HERBACEOUS PERENNIALS. Over 1.5% iron is added to provide extra sheen and darker green leaves for plants prized for their foliage. For use in GREENHOUSES and other over-wintering structures.

APEX® 22-6-8 NPK Plus with GAL-Xe^{ONE}® (8-9 months @ 70°F)

Use this product to meet the season-long nutritional needs of CONTAINER GROWN TREES AND SHRUBS. Good release in cooler climates. Residual nutrients promote next spring's growth in cooler growing areas.

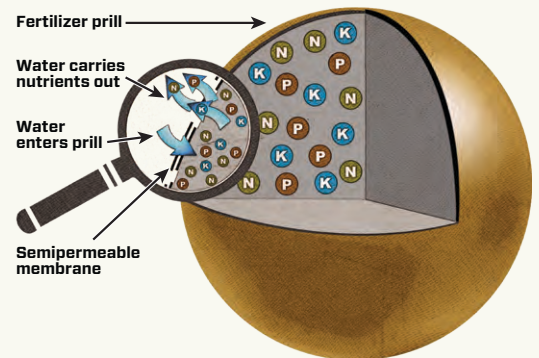
APEX® 22-6-12 NPK Plus with GAL-Xe^{ONE}® (8-9 months @ 70°F)

A cost-effective, general-purpose fertilizer designed for outdoor container nursery production. Specifically formulated to deliver nutrients consistently based on specified temperatures.

The APEX® line of fertilizers feature application specific formulations that incorporate GAL-Xe^{ONE}® controlled-release technology. The coating process of GAL-Xe^{ONE}® enables consistent, predictable nutrient delivery for up to 18 months, and APEX® fertilizers eliminate the need for top dressing on most plants.

Patented Technology Developed with NASA

- Simplot GAL-Xe^{ONE}® is a controlled-release fertilizer with an advanced polymer coating technology that controls nutrient release.
- The **proprietary** reactive layer coating was created with support from NASA's Space Alliance Technology Outreach Program.
- The strong, yet thin coating on GAL-Xe^{ONE}® uses cross-link polymers that allow for a nutrient boost upfront followed by controlled-release.



World-Class Fertilizer Performance

- GAL-Xe^{ONE}® fertilizer boasts a patented polymer technology that reduces leaching and volatilization of applied nutrients.
- The durable coating reduces lag time from application to initial nutrient release without sacrificing longevity.
- GAL-Xe^{ONE}® release curves are tested at 100° F for superior quality and control.

General Description

APEX® Evergreen is formulated to meet the nutritional needs of continuous-feed and single-flush CONIFERS and BROADLEAF EVERGREENS that require supplemental nutrition that can leach in heavy rainfall production sites. The NPK coating levels are blended to provide a "gentle" start, early root development with more branching and fuller plants. Encourages fall bud development.

APEX® 19-6-9 Conifer with GAL-Xe^{ONE}® (10-12 months @ 70°F)

Use this product on all season plus crops that are kept outside during the entire growth cycle.

- Formulated for continuously flushing conifers.
- Steady release of nutrients offers year-round feeding.
- Adequate amounts of nutrients are provided to prevent deficiencies common with rapidly growing conifers.
- Higher levels of magnesium, iron, and sulfur to hold color in cooler growing conditions of the Pacific Northwest.

APEX® 21-7-8 Evergreen with GAL-Xe^{ONE}® (8-9 months @ 70°F)

Use this product for all full-season container crops in warmer climates and season plus in cooler northern and moderate coastal climates.

- Recommended for general spring incorporation.
- Great for finishing season plus crop in mild climates.
- Excellent for ericaceous crops.

APEX® 20-8-8 Evergreen with GAL-Xe^{ONE}® (10-12 months @ 70°F)

Use this product as a season plus for all climates as this product will maintain good color for more than a season.

- Cooler climates: Recommended for fall application.
- Warmer climates: Recommended for year-round applications.

General Description

These TOPDRESS products are recommended for all container crops that require supplemental and immediate supply of nitrogen, phosphorus and potassium.

APEX® 21-7-6 Cool Weather Special with GAL-Xe^{ONE}® (3-4 months @ 70°F)

A high-quality, professional 3-4 month controlled-release fertilizer for CONTAINERS, BEDDING PLANTS, and LANDSCAPE AREAS.

- Use where you want to promote a more rapid response during cooler temperatures.
- High iron produces dark green foliage to hold fall and winter colors for early spring sales.
- Source of nitrogen from GAL-Xe^{ONE}®.

APEX® 21-5-6 Super Iron Topdress with GAL-Xe^{ONE}® (4-5 months @ 70°F)

Use this product as a high-quality, professional controlled-release fertilizer for top dressing, broadcast, or incorporation application of trees and shrubs.

- Use as a year-round top-dress fertilizer.
- Use in the fall to hold foliage and winter colors.
- High iron produces dark green foliage to hold fall and winter color for early spring sales.

APEX® 22-6-7 Full Season Plus Iron with GAL-Xe^{ONE}® (6-7 months @ 70°F)

This product contains staged release nutrients with higher amounts of iron.

- Apply in the spring to provide season-long nutrition.
- Higher amounts of iron to help maintain green color.

APEX® 22-6-10 Full Season Topdress with GAL-Xe^{ONE}® (6-7 months @ 70°F)

This product contains staged release nutrients to provide season-long nutrition.

- Use in spring to provide season-long nutrition for most deciduous trees and shrubs.
- Provides an additional source of slow-release potassium, magnesium, and sulfur to help maintain color and plant vigor throughout the growing season.

APEX® 0-46-0 Micro-Sized Monodicalcium Phosphate / Dicalcium Phosphate

A high-quality micro-sized phosphorus fertilizer. Excellent for bedding plants. Low phosphate solubility to extend nutrient release. Low fluorine levels for use on fluorine-sensitive crops.

APEX® 12-4-12 Palm K with GAL-Xe^{ONE}® (3-4 months @ 70°F)

A professional, high-quality, controlled-release fertilizer specifically formulated for palms with a 3:1:3 ratio with extra magnesium and a set of micronutrients.

APEX® 21-2-7 Low P with GAL-Xe^{ONE}® (8-9 months @ 70°F)

Specially formulated for plants that are sensitive to high rates of phosphorus or are more efficient in phosphorus uptake. Mycorrhizae formation is greater when fertilizers with lower amounts of phosphorus are used.

APEX® 38-0-0 Preplant (3-5 months @ 70°F)

This product is a long-lasting, slow-release nitrogen source. Helps counteract nitrogen drawdown in composting piles and contains sulfur as a secondary nutrient.

APEX® Micronutrient Formulation

This product is specifically formulated to provide most secondary and micronutrients for plant uptake throughout the growing season. The fine particle size ensures uniform distribution of nutrients throughout the soilless media.

GAL-Xe^{ONE}® 43-0-0 (3-4 months @ 70°F)

This product helps counteract nitrogen drawdown in a composting pile. A highly effective control release fertilizer.

APEX® SAPPHIRE Polymer-Coated Aluminum Sulfate Powered by GAL-Xe^{ONE}® (90 days)

This product is a slow-release, polymer-coated aluminum sulfate, with 7.5% aluminum (Al) derived from aluminum sulfate and 12% sulfur (S), designed to increase the development of the blue flower color in blue hydrangeas.

Dimension® 270G Turf and Ornamental Landscape Pre-emergent Herbicide

This micro-sized, pre-emergent, granular herbicide provides excellent control of most broadleaf weeds and annual grasses found in turf, landscape, field grown, and container ornamentals. This virtually dust-free formulation is very cost-effective when compared to other popular pre-emergent herbicides.

GAL-Xe^{ONE}® CURVE

The GAL-Xe^{ONE}® Curve is a free application that provides the nitrogen release data on GAL-Xe^{ONE}® fertilizers.

Using and navigating the GAL-Xe^{ONE}® Curve is easy and intuitive—all of the input fields and data results are located on a single screen.

<http://App.SimplotGalxeOne.com>



APEX® Evergreen

	19-6-9 Conifer	21-7-8 Evergreen	20-8-8 Evergreen
Longevity in Months			
50°F	14-16	10-12	14-16
60°F	12-14	9-10	12-14
70°F	10-12	8-9	10-12
80°F	8-10	7-8	8-10

Breakdown of Analysis (%)

Total N	19.00	21.00	20.00
NH ₄	3.60	5.20	4.80
NO ₃	2.30	4.20	3.00
Urea	13.10	11.60	12.20
P ₂ O ₅	6.00	7.00	8.00
K ₂ O	9.00	8.00	8.00
Mg	2.00	0.50	0.50
S	5.00	2.50	2.50
Cu	0.05	0.05	0.05
Fe	0.20	1.55	1.40
Mn	0.05	0.05	0.05
Mo	0.0006	0.0006	0.0006
Zn	0.05	0.05	0.05

APEX® NPK **NPK MINIS**

	14-14-14 NPK	19-6-13 NPK	19-6-12 NPK	18-6-12 NPK	13-13-13 NPK	17-6-12 NPK	16-5-11 NPK	18-6-12 NPK MINIS
Longevity in Months								
50°F	6-7	8-9	11-12	14-15	14-15	16-18	19-21	5-6
60°F	5-6	7-8	9-10	12-13	12-13	14-15	16-18	4-5
70°F	3-4	5-6	7-8	10-11	10-11	12-13	14-16	3-4
80°F	2-3	4-5	5-6	8-9	8-9	10-11	12-14	2-3

Breakdown of Analysis (%)

Total N	14.00	19.00	19.00	18.00	13.00	17.00	16.00	18.00
NH ₄	8.10	10.10	10.10	9.60	7.62	8.99	8.50	9.60
NO ₃	5.90	8.90	8.90	8.40	5.48	8.01	7.50	8.40
P ₂ O ₅	14.00	6.00	6.00	6.00	13.00	6.00	5.00	6.00
K ₂ O	14.00	13.00	12.00	12.00	13.00	12.00	11.00	12.00
S	5.00	4.00	4.00	4.00	5.00	4.00	4.00	4.00

APEX® NPK Max

	17-5-11 NPK Max	16-5-10 NPK Max	15-5-10 NPK Max	14-5-10 NPK Max
Longevity in Months				
50°F	5-6	8-9	12-13	15-16
60°F	4-5	7-8	10-11	13-14
70°F	3-4	5-6	8-9	11-12
80°F	2-3	4-5	6-7	9-10

Breakdown of Analysis (%)

Total N	17.00	16.00	15.00	14.00
NH ₄	9.00	8.50	8.00	8.00
NO ₃	8.00	7.50	7.00	6.00
P ₂ O ₅	5.00	5.00	5.00	5.00
K ₂ O	11.00	10.00	10.00	10.00
Mg	1.00	1.00	1.10	0.90
S	5.00	5.00	6.00	5.50
Cu	0.08	0.08	0.05	-
Fe	0.45	0.45	0.55	0.55
Mn	0.10	0.10	0.06	0.06
Mo	0.0005	0.0005	-	-
Zn	0.05	0.05	0.05	0.05



THE ONE TO GROW WITH

APEX® NPK Plus

	19-6-10 NPK Plus	16-5-9 NPK Plus	22-6-8 NPK Plus	22-6-12 NPK Plus
Longevity in Months				
50°F	7-8	8-9	11-12	11-12
60°F	6-7	7-8	9-10	9-10
70°F	4-5	6-7	8-9	8-9
80°F	3-4	5-6	6-7	6-7

Breakdown of Analysis (%)

Total N	19.00	16.00	22.00	22.00
NH ₄	7.40	8.50	6.30	2.00
NO ₃	6.00	7.50	5.60	0.80
Urea	5.60	0.00	10.10	19.20
P ₂ O ₅	6.00	5.00	6.00	6.00
K ₂ O	10.00	9.00	8.00	12.00
Mg	0.50	0.50	0.50	0.50
S	4.70	4.00	3.00	4.00
Cu	0.05	0.05	0.05	0.05
Fe	1.50	1.60	0.20	0.20
Mn	0.05	0.05	0.05	0.05
Mo	0.0005	0.0006	0.0006	0.0005
Zn	0.05	0.05	0.05	0.05

APEX® Specialty

	Micro-Nutrient	0-46-0 Monodocal	12-4-12 Palm K	21-2-7 Low P	38-0-0 PrePlant	GAL-Xe ^{ONE} 43-0-0
Longevity in Months						
50°F	N/A	N/A	5-6	11-12	3-5	5-6
60°F	N/A	N/A	4-5	9-10	3-5	4-5
70°F	N/A	N/A	3-4	8-9	3-5	3-4
80°F	N/A	N/A	2-3	6-7	3-5	2-3

Breakdown of Analysis (%)

Total N	-	-	12.00	21.00	38.00	43.00
NH ₄	-	-	5.00	3.50	-	-
NO ₃	-	-	-	3.00	-	-
Urea	-	-	7.00	14.50	38.00	43.00
P ₂ O ₅	-	46.00	4.00	2.00	-	-
K ₂ O	-	-	12.00	7.00	-	-
S	13.00	-	13.00	5.50	12.00	-
Ca	2.40	15.00	-	-	-	-
Mg	1.20	-	3.00	1.90	-	-
Fe	13.00	-	3.75	1.70	-	-
Mn	1.50	-	0.20	0.05	-	-
Mo	0.0005	-	0.0006	0.0006	-	-
Zn	1.00	-	0.05	0.05	-	-
Cu	0.25	-	0.05	0.05	-	-

APEX® Topdress

	21-7-6 CWS	21-5-6 Super Iron	22-6-7 FS Plus Iron	22-6-10 Full Season
Longevity in Months				
50°F	5-6	6-7	8-9	8-9
60°F	4-5	5-6	7-8	7-8
70°F	3-4	4-5	6-7	6-7
80°F	2-3	3-4	5-6	5-6

Breakdown of Analysis (%)

Total N	21.00	21.00	22.00	22.00
NH ₄	1.70	2.00	2.50	2.50
NO ₃	-	-	1.00	1.00
Urea	19.30	19.00	18.50	18.50
P ₂ O ₅	7.00	5.00	6.00	6.00
K ₂ O	6.00	6.00	7.00	10.00
Mg	0.50	0.50	7.00	1.50
S	2.00	2.00	4.30	6.00
Cu	0.05	0.05	0.05	0.05
Fe	6.00	6.00	6.00	0.60
Mn	0.05	0.05	0.05	0.05
Mo	0.0005	0.0005	-	0.0006
Zn	0.05	0.05	0.05	0.05