

TECHNIGRO® another quality brand from the makers of
Water-Soluble Fertilizers **Sunshine®** and **Metro-Mix®**

Fertilizer Dilutions

Ounces of Technigro® per gallon of water to make a fertilizer concentrate to be used at a 1:100 injection ratio.

% Element	25 ppm	50 ppm	75 ppm	100 ppm	150 ppm	200 ppm	300 ppm
10	3.34	6.68	10.01	13.35	20.03	26.7	40.05
11	3.03	6.07	9.1	12.14	18.21	24.27	36.41
12	2.78	5.56	8.34	11.13	16.69	22.25	33.38
13	2.57	5.13	7.7	10.27	15.4	20.54	30.81
14	2.38	4.77	7.15	9.54	14.3	19.07	28.61
15	2.23	4.45	6.68	8.9	13.35	17.8	26.7
16	2.09	4.17	6.26	8.34	12.52	16.69	25.03
17	1.96	3.93	5.89	7.85	11.78	15.71	23.56
18	1.85	3.71	5.56	7.42	11.13	14.83	22.25
19	1.76	3.51	5.27	7.03	10.54	14.05	21.08
20	1.67	3.34	5.01	6.68	10.01	13.35	20.03
21	1.59	3.18	4.77	6.36	9.54	12.72	19.07
22	1.52	3.03	4.55	6.07	9.1	12.14	18.21
23	1.45	2.9	4.35	5.8	8.71	11.61	17.41
24	1.39	2.78	4.17	5.56	8.34	11.13	16.69
25	1.34	2.67	4.01	5.34	8.01	10.68	16.02
26	1.28	2.57	3.85	5.13	7.7	10.27	15.4
27	1.24	2.47	3.71	4.94	7.42	9.89	14.83
28	1.19	2.38	3.58	4.77	7.15	9.54	14.3
29	1.15	2.3	3.45	4.6	6.91	9.21	13.81
30	1.11	2.23	3.34	4.45	6.68	8.9	13.35

NOTE: For a 1:200 injector ratio, double the amount of fertilizer recommended above. For small volume dilutions to 100 ppm N without using an injector add 0.14 (10% N formulations), 0.09 (15% N formulations), or 0.067 (20% N formulations) oz/gal of water.

Suggested Technigro® Concentrations

Crop Type	Constant Liquid Feed (ppm N)	Periodic Feeding (ppm N)
Bedding Plants	50-150	200-250
Cut Flowers	125-250	300-400
Pot Chrysanthemums	200-300	350-400
Potted Easter Lilies	100-250	350-400
Potted Geraniums	150-250	350-400
Potted Poinsettias	150-250	375-400
Potted Tropical Foliage	100-200	250-300
Woody Ornamentals	50-100	300-350
Plugs (all types)	50-125	150-200
Fruit and Field Crop Vegetables	n/a	25-300
Landscape and Turf	1/4 lb. N per 1000 sq. ft. every 2-4 weeks	

NOTE: The optimum concentration is variable and dependent on crop type, weather, time of year, stage in cropping period, soil type and application rate (volume applied per area). Tender plants or seedlings are very sensitive and should be fed at a lower concentration. The Technigro formula (NPK) and concentration (ppm) that is most suitable for individual uses should be determined by soil and water analysis and plant response. Contact Sun Gro for analysis sample kits and for more information about Sun Gro Analytical Services.

SOLUTIONS FOR GROWERS



Sun Gro Horticulture offers products that will help you grow the highest quality plants for your customers. Backed by our superior technical support and research personnel, we have the products that will fit your needs.

SUNSHINE®
Professional Mixes

- The most consistent growing media, made with select Canadian sphagnum peat moss, aggregates and nutrients.
- Sun Gro Horticulture's wetting agent that wets more thoroughly and lasts longer.

METRO-MIX®
Professional Mixes

- The Metro-Mix lineup offers a broad range of applications ranging from small cell-packs to large containers.
- All formulas are pH adjusted, contain a nutrient starter charge and our long-lasting wetting agent.

FAFARD®
Professional Mixes

- Light, middle heavy weight peat-based and bark-based mixes are expertly blended for productive crops.
- Coir-based and custom mix additives are also offered.

TECHNIGRO®
Water-Soluble Fertilizers

- The most soluble fertilizer on the market with added sulfur and magnesium in many formulas for greener, healthier growth.
- Packaged in a thick plastic bag for extra protection against hardening and ease of handling.

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Analytical Services

- A comprehensive tissue, water and media analysis to provide the answers you need.
- Presented in the easy to understand test tube format for a quick interpretation of media and tissue analyses.
- Highly trained grower specialists and district sales managers provide solutions to your problems.

Call your Sun Gro representative for more information.
Toll-free Customer Resource Centers:

West: 1-888-797-7328 **Fax:** 1-888-797-6497
Central: 1-888-982-4500 **Fax:** 1-888-982-4501
Southeast: 1-800-683-7700 **Fax:** 1-800-231-5307
East: 1-800-732-8667 **Fax:** 1-413-789-3425

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TECHNIGRO®
Water-Soluble Fertilizers

Perhaps the most soluble fertilizer on the planet!



Technigro is an effective, high-quality water-soluble fertilizer that dissolves quickly regardless of water quality, irrigation equipment or injector, Technigro fertilizers stay in solution and never leave residue in the bottom of the tank. With Technigro, growers spend less time dealing with solubility problems while effectively fertilizing their crops.

All Technigro "Plus" formulations are recommended for use in peat-lite growing media that do not contain appreciable amounts of micro-nutrients.

For more information: www.sungro.com/professional-products

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HORTICULTURE
 Our Expertise is Growing™

MOST RECOMMENDED!

20-9-20 Plus

Our best formula for a wide range of crops and conditions. This high nitrate formula is an excellent source to supply readily available sulfur resulting in improved plant vigor and deeper green leaves. Its acidifying effect is useful where irrigation waters have a moderate alkalinity. The **Plus** level of minor nutrients is ideal for soilless growing mix production.

Features	Benefits
High nitrate nitrogen (57.5%).	Available nitrogen over a wide range of temperature and light conditions.
Enhanced sulfur (1%) levels.	Supplies readily available, essential nutrient that is often overlooked.
Chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
Moderately high potential acidity.	Helpful in controlling growing mix pH where irrigation water has moderate alkalinity.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.

17-5-24 Plus

With a slightly acidifying effect, this formulation is useful where irrigation waters have low-to-moderate alkalinity. It will not strongly affect growing media pH. This high nitrate formula is an excellent source to supply readily available magnesium and sulfur resulting in improved plant vigor and deeper green leaves. The **Plus** level of minor nutrients is ideal for soilless growing mix production.

Features	Benefits
High nitrate nitrogen (68.6%).	Available nitrogen over a wide range of temperature and light conditions.
Enhanced magnesium (2%) and sulfur (2.5%) levels.	Supplies readily available, essential nutrients that are often overlooked.
Chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
Moderate potential acidity.	Helpful in controlling media pH where irrigation water has low to moderate alkalinity.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.

15-0-15 Plus contains 9% Calcium & 1% Magnesium

Used to supplement calcium & magnesium in a feed program using pure water or when growing plants which demand higher calcium & magnesium levels, also to correct calcium & magnesium deficiencies. Absence of phosphorus allows better control of phosphorus levels to avoid plant stretch. Great for plugs and bedding plants using relatively pure irrigation water or where excess alkalinity is being controlled. The **Plus** level of minor nutrients is ideal for soilless growing mix production. Do not mix in a concentrated stock tank with sulfate containing fertilizers and acids.

Features	Benefits
High nitrate nitrogen (91%).	Ideal for use under cool, low light conditions such as greenhouses in wintertime in northern climates.
Enhanced calcium (9%) and magnesium (1%) levels.	Supplies readily available, essential nutrients that are often overlooked.
Enhanced chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
High potential basicity.	Useful in raising growing mix pH.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.

13-2-13 Plus Contains 6% Calcium & 3% Magnesium

Great for plugs and bedding plants using relatively pure irrigation water or where excess alkalinity is controlled. Contains phosphorous, calcium and magnesium; no need to alternate feed programs. Low phosphorus allows better control of phosphorus levels to avoid plant stretch. Use to supplement calcium & magnesium in feed programs using pure water or when growing plants demanding higher calcium & magnesium levels, also to correct calcium & magnesium deficiencies. The **Plus** level of minor nutrients is ideal for soilless growing mix production. Do not mix in a concentrated stock tank with sulfate containing fertilizers and acids.

Features	Benefits
High nitrate nitrogen (93%).	Ideal for use under cool, low light conditions such as greenhouses in wintertime in northern climates.
Enhanced calcium (6%) and magnesium (3%) levels.	Supplies readily available, essential nutrients that are often overlooked.
Enhanced chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
High potential basicity.	Useful in raising growing mix pH.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.

OTHER OFFERINGS

24-7-15 Plus

Recommended choice for plants grown under warm conditions. The 3:1:2 ratio is optimum for tropical foliage plant production and it is also excellent for turf and landscapes as well as interiorscapes. This formula has higher sulfur and magnesium levels than others to promote plant vigor and darker green foliage. Its acidifying effect is useful where irrigation waters have a moderate to high alkalinity. The **Plus** level of minor nutrients is ideal for soilless growing mix production. Effective as a foliar feed.

Features	Benefits
High urea nitrogen (67.5%).	Effective as a foliar feed. Lower EC.
Enhanced magnesium (1%) and sulfur (3.5%) levels.	Supplies readily available, essential nutrients that are often overlooked.
Chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
High potential acidity.	Helpful in controlling growing mix pH where irrigation water has moderate to high alkalinity.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.

21-7-7 Acid Special

Specifically designed for use in lowering growing mix pH or where irrigation water is high in alkalinity. Recommended for use as a corrective feed when a significant adjustment in pH is required. Also can be used as a general purpose feed for "acid loving" crops. Due to high urea nitrogen composition, can be used as a foliar feed.

Features	Benefits
High percentage of nitrogen from urea.	Urea nitrogen aids in driving nutrients into the foliage.
High potential acidity.	Helpful in reducing growing media pH.
Chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
Enhanced sulfur (13.5%) levels.	Supplies readily available, essential nutrient that is often overlooked.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.

20-10-20 Plus

An excellent formula for a wide range of crops and conditions. This formula, contains higher nitrate than ammonium nitrogen, is an excellent source to supply readily available sulfur resulting in improved plant vigor and deeper green leaves. Its acidifying effect is useful where irrigation waters have a moderate alkalinity. The **Plus** level of minor nutrients is ideal for soilless growing mix production.

Features	Benefits
High nitrate nitrogen (60%).	Available nitrogen over a wide range of temperature and light conditions.
Enhanced sulfur (0.5%) levels.	Supplies readily available, essential nutrient that is often overlooked.
Chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
Moderately high potential acidity.	Helpful in controlling growing mix pH where irrigation water has moderate alkalinity.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.

17-5-17 Plus Contains 3.5% Calcium & 1.1% Magnesium

An all-purpose formulation useful in a wide range of crops and conditions. It produces a relatively neutral reaction to help maintain steady pH in growing mix. This high nitrate formula is an excellent source to supply readily available nitrogen. This formula also contains calcium, magnesium and chelated minor elements. Do not mix 17-5-17 Plus in a concentrated stock tank with other phosphate or sulfate containing fertilizers.

Features	Benefits
High nitrate nitrogen (73%).	Available nitrogen over a wide range of temperature and light conditions.
Enhanced calcium (3.5%) and magnesium (1.1%) levels.	Supplies readily available, essential nutrients that are often overlooked.
Very low potential acidity.	Helps to maintain stability in soil pH.
Chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.

ALSO AVAILABLE

20-20-20 All Purpose

Suitable as a warm weather feed for a variety of crops. It has lower minor nutrient levels than Technigro Plus formulas making it suitable for turf, landscape, potting mixes containing field soil and long term minor nutrient supplements. The high phosphorus levels make this formula an excellent supplement for soils and mixes with low phosphorus content.

Features	Benefits
High urea nitrogen (51%).	Effective as a foliar feed. Low EC levels.
High phosphorus levels (20%).	Aids in root and bloom development.
Chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
Moderate potential acidity.	Helpful in controlling growing mix pH where irrigation water has moderate alkalinity.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.

20-20-20 Plus

Suitable as a warm weather feed for a variety of crops. It contains the PLUS levels of minor nutrients, making it suitable for greenhouse and container production, along with turf and landscape uses where higher micronutrients are needed. The high phosphorus levels make this formula an excellent supplement for conditions where higher phosphorus levels are needed.

Features	Benefits
High urea nitrogen (55%).	Effective as a foliar feed. Low EC levels.
High phosphorus levels (20%).	Aids in root and bloom development.
Chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
High potential acidity.	Helpful in controlling growing mix pH where irrigation water has moderate to high alkalinity.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.

10-30-20 Plus

Recommended when you want high phosphorous and low nitrogen levels. The 1:3:2 ratio may enhance flowering in some species by helping maintain an appropriate N:P ratio while contributing to enhanced root growth. The **Plus** level of minor nutrients is ideal for soilless growing mix production.

Features	Benefits
Low nitrogen formulation.	Reducing ratio of nitrogen to phosphorus helps stimulate bud-set in some species.
High phosphorus levels (30%).	Essential for root development.
Chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
Moderately high potential acidity.	Helpful in controlling media pH where irrigation water has moderate to high alkalinity.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.

6-30-30 Plus

Recommended when you want high phosphorous and potassium, with low nitrogen levels. The 1:5:5 ratio may enhance flowering in some species by helping maintain an appropriate N:P ratio while contributing to enhanced root growth. The additional potassium helps enhance plant vigor. The **Plus** level of minor nutrients is ideal for soilless growing mix production.

Features	Benefits
Low nitrogen formulation.	Reducing ratio of nitrogen to phosphorus helps stimulate bud-set in some species.
High phosphorus and potassium levels.	Essential for root development and plant vigor.
Chelated micronutrients.	Available micronutrients over a wide range of soil conditions.
Moderate potential acidity.	Will work with a wide range of water alkalinities.
Highly water soluble.	Readily dissolves to use with a wide range of injectors.
Free flowing.	Easy to measure and mix fertilizer.