

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.

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.

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.

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.

15-5-15 Plus Contains 5% Calcium & 2% Magnesium

An all purpose formulation useful in a wide range of crops and conditions. It produces low to moderate basic reaction to help maintain pH not rising too high 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 15-5-15 Plus in a concentrated stock tank with other phosphate or sulfate containing fertilizers.

Features	Benefits
High nitrate nitrogen (80%).	Available nitrogen over a wide range of temperature and light conditions.
Enhanced calcium (5%) and magnesium (2%) levels.	Supplies readily available, essential nutrients that are often overlooked.
Moderate potential basicity.	Helps to keep growing media pH from rising too high.
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.

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 and 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.

sungro®

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

sungro®
HORTICULTURE

Our Expertise is Growing™

www.sungro.com



Member of the CSPMA

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

sungro®
HORTICULTURE

Our Expertise is Growing™