

21-5-20 All Purpose

PRODUCT FEATURES

- This product is covered by one or more of the following US patents or foreign counterparts thereof: 5,171,349; 5,395,418; 5,492,553
- Best for water with medium to high alkalinity at or above 100 ppm CaCO₃ $(100 \text{ mg CaCO}_3/1)$
- Contains high nitrate nitrogen

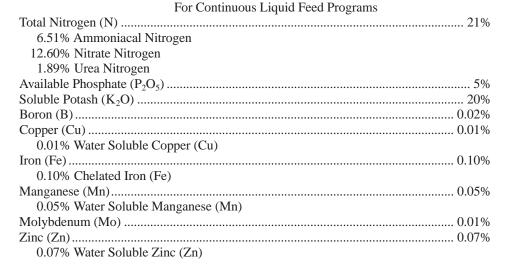
GUARANTEED ANALYSIS

Can be mixed with all Miracle-Gro EXCEL products

STOCK NO. 91990

- Low phosphorus level makes it excellent choice for use with phosphoric acid
- Maintains solubility in concentrate when calcium nitrate and magnesium nitrate are added or when epsom salts (magnesium sulfate) ONLY is added
- Ideal for all potted and bedding plants and cut flowers
- Excellent choice for plug production
- Maximum solubility 3 lb./gal.

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Derived from: Ammonium Nitrate, Potassium Nitrate, Urea Phosphate, Boric Acid, Copper Sulfate, Iron EDTA, Manganese Sulfate, Ammonium Molybdate, Zinc Sulfate.

Potential Acidity: 389 lb. Calcium Carbonate equivalent per ton.

Warning: Fertilizer contains more than .001% Molybdenum. It should not be used on forage grass for livestock.

Distributed By:



The Scotts Company 14111 Scottslawn Road • Marysville, Ohio 43041 1-800-492-8255

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H4070 Revised 11/99



PROFESSIONAL

HORTICULTURE

Water

Soluble

Fertilizers

Miracle-Gro® EXCEL® 21-5-20 All Purpose Water Soluble Fertilizer

(Suggestions for Commercial Growers)

100 ppm N Solution Contains the Following Elemental ppm			Сгор Туре	Continuous Feeding ppm N (Constant Liquid Feeding)	Periodic Feeding ppm N (Pulse Feeding)	
Ammonium-N	$(NH_4 - N)$	31.0	Bedding Plants	50-150	150-250	
Nitrate-N	$(NO_3 - N)$	60.0		50, 100	200-350	
Urea-N	(Urea-N)	9.0	Containerized Woody Plants	50-100		
Phosphorus	(P)	10.5	Cut Flowers	175–225	300-450	
Potassium	(K)	79.1	Potted Chrysanthemums	200-300	350-400	
Calcium	(Ca)	0	I otted Chirysanthemunis	200-300	550-400	
Magnesium	(Mg)	0	Potted Easter Lilies	200-300	350-400	
Boron	(B)	0.095	Potted Tropical Foliage	150-200	250-300	
Copper	(Cu)	0.048				
Iron	(Fe)	0.476	Potted Geraniums	200-300	350-400	
Manganese	(Mn)	0.238	Potted Poinsettias	200-300	350-400	
Molybdenum	(Mo)	0.048				
Zinc	(Zn)	0.333	Plugs (All Types)	50-125	175–225	

Ounces of Miracle-Gro EXCEL 21-5-20 Per Gallon of Concentrate						Approximate Gallons Required to Dissolve One 25 lb. Bag of 21-5-20			
Nitrogen	Injector Ratios*				E.C.**	Nitrogen	Injector Ratios		
ppm N	1:15	1:100	1:128	1:200	1:300	mmhos/cm	ppm N	1:100	1:200
25	0.24	1.61	2.05	3.22	4.83	0.15	25	248	124
50	0.48	3.22	4.10	6.43	9.65	0.29	50	124	62
75	0.72	4.83	6.15	9.65	14.48	0.44	75	83	41.5
100	0.95	6.43	8.23	12.86	19.29	0.58	100	62	31
150	1.43	9.65	12.33	19.29	28.94	0.87	150	41.5	21
200	1.90	12.86	16.46	25.72	38.58	1.16	200	31	15.5
300	2.85	19.30	24.69	38.58	***	1.74	300	21	10.5
400	3.80	25.72	32.92	***	***	2.32	400	15.5	***

* Use the oz./gal. to obtain suggested or desired ppm N. To customize, values are additive. For example, if 275 ppm N is desired, using a 1:100 injector, add 12.86 oz. (200 ppm N) and 4.83 oz. (75 ppm N) to yield 17.69 oz./gal. concentrate. To convert oz./gal. to grams/liters, multiply by 7.5.

** E.C. measurements do not include E.C. of plain water. Since Miracle-Gro EXCEL technology fertilizers reduce overall water alkalinity, the electrical conductivity (E.C.) of fertilizer solutions may be slightly affected. For more information contact your Scotts representative or Scotts Customer Service at 1-800-492-8255 or the Scotts Testing Laboratory at 1-800-743-4769. E.C. calculations are based upon a 100 ppm nitrogen solution with a water alkalinity of less than 100 ppm CaCO₃ (100 mg CaCO₃/1).

***Limit of solubility 3.0 lbs./gal. (48 oz./gal.) Dissolves fast with hot water.

SUGGESTIONS FOR USE

The chemical composition of the irrigation water applied to crops has a major influence on the nutrients available to plants in the long term. Before selecting and/or designing a fertilizer program, first test the irrigation water to better understand pH and alkalinity.

Do not mix Miracle-Gro® EXCEL® fertilizers in the concentrate with fertilizers containing ammonium phosphates or potassium phosphates, such as regular Peters Professional® Water Soluble Fertilizer or other brands of water soluble fertilizers.

Continuous feeding is recommended over periodic or pulse feeding as this practice provides a more uniform and optimal feed program.

Use a reputable laboratory such as the Scotts Testing Laboratory for more reliable media, solution and tissue test results.