



Micrel Total (5-0-0)

With Eight Micronutrients

- **100% Chelated Micronutrients**
- **Complete Micro Profile**
- **Foliar Spray to Correct Chlorosis**
- **More Efficient**
- **Crystal Clear Solution**
- **Completely Soluble and Ready For Uptake**

Guaranteed Analysis:

Total Nitrogen (N) . . . . .	.5%
5% Urea Nitrogen	
Magnesium (Mg) . . . . .	.0.5%
0.5% Chelated Magnesium (Mg)	
Sulfur (S) . . . . .	.4%
4% Combined Sulphur (S)	
Boron (B) . . . . .	.0.02%
Copper (Cu) . . . . .	.0.5%
0.5% Chelated Copper (Cu)	
Iron (Fe) . . . . .	.6%
6% Chelated Iron (Fe)	
Manganese (Mn) . . . . .	.0.5%
0.5% Chelated Manganese (Mn)	
Molybdenum (Mo) . . . . .	.0.0005%
Zinc (Zn) . . . . .	.0.5%
0.5% Chelated Zinc (Zn)	
<u>Derived From:</u> Low Biuret Urea, Iron Citric Acid, Manganese Citric Acid, Copper Citric Acid, Zinc Citric Acid, Magnesium Citric Acid, Sodium Borate, Sodium Molybdate, Boric Acid.	
Chelating Agent: Citric Acid.	
Weight per gallon . . . . .	.11.65 lbs.

100 ppm N Solution Contains the Following Elemental ppm	
PPM Nitrogen	100
Iron (Fe)	120
Sulfur (S)	80
Magnesium (Mg)	10
Manganese (Mn)	10
Copper (Cu)	10
Zinc (Zn)	10
Boron (B)	0.40
Molybdenum (Mo)	0.01

Product Description:

Micrel Total is a fully chelated 100% micronutrient package. Micrel Total has a horticulturally correct ratio of magnesium, sulfur, boron, copper, iron, manganese, molybdenum and zinc. The chelation process assures you of completely soluble and available micros that the plant can immediately absorb. Micrel Total can be used to correct deficiencies in all types of greenhouse and nursery

crops. It is an ideal product to use when it is not possible to run soil and tissue tests to determine the exact deficiency. Micrel Total is also a great additive to supplement fertilizers lacking micronutrients. Micrel Total can be foliar applied for immediate treatment of chlorotic conditions and is more efficient than non-chelated products.



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Fluid Ounces Of Micrel Total Per Gallon Of Water								
PPM Nitrogen:	25	50	75	100	150	200	300	400
PPM Iron:	30	60	90	120	180	240	360	480
PPM Mg, Cu, Mn, Zn:	3	5	8	10	15	20	30	40
1:500	23.20	46.40	69.60	92.80	139.19	185.59		
1:300	13.92	27.84	41.76	55.68	83.52	111.36		
1:200	9.28	18.56	27.84	37.12	55.68	74.24	111.36	
1:100	4.64	9.28	13.92	18.56	27.84	37.12	55.68	74.24
1:50	2.32	4.64	6.96	9.28	13.92	18.56	27.84	37.12
1:15 Ratio for Hozon Proportioner								
1:15	0.70	1.39	2.09	2.78	4.18	5.57	8.35	N/A

Application Recommendations:

Micrel Total needs no mixing and will not settle out of solution. Like all Growth Products, it is ideal for any type of fertigation system, drip irrigation or spray equipment. Use Micrel Total on all types of bedding plants, perennials, cut flowers, plugs, ornamentals, nursery crops, trees, foliage and container plants.

Direct Siphon: Micrel Total can be siphoned directly from the original container. This can be done with a variable proportioner that can be set to high ratios. This eliminates the need to mix stock concentrates or stir the mixing barrels. For 100 PPM nitrogen, set injector to 1:700; for 200 PPM, set injector to 1:350.

Soil & Tissue Testing: Have horticulturalists accurately identify micronutrient deficiencies. Whenever possible, run these tests prior to micronutrients applications in order to prescribe the deficient micro.

Parts Per Million: Use the *Parts Per Million* chart to choose desired nitrogen and iron ratio.

Drench: Use the *Drench Rates* charts in order to calculate application by specific number of pots. Ideal for field grown and containerized nursery stock as an alternative to top dressing with granulars.

Foliar Feeding: When using overhead irrigation, Micrel Total gives you dual efficiency since the nutrients will be absorbed by both the leaves and roots. For tender plants and greenhouse foliar spray applications use one-half the rate (PPM) you would normally use for drip irrigation feeding. Foliar feeding should not be done when plants are in bloom.

Hand Watering: Mix 3/4 to 1 teaspoon Micrel Total per gallon of water. Saturate soil with mix.

Drench Rates For Containers

100 Gallon Tank	Low	High
	(Sensitive Plants)	(Nursery Stock & Foliage)
Desired Iron Per Cubic Yard	1/8 lb. Fe	1/4 lb. Fe
Gallons Micrel Total / 100 Gal. Tank	0.82	1.64

Drench Rate Per Container		
Pot Size	Tank Mix Applied Per Pot	Number Of Pots Per 100 Gallon Tank Mix
4"	2 fl. oz.	6400
5"	3.5 fl. oz.	3657
6"	6.2 fl. oz.	2065
1 Gal.	9.3 fl. oz.	1376
2 Gal.	20 fl. oz.	640
3 Gal.	35 fl. oz.	366

Storage & Handling:

Storage: All Growth Products horticultural micronutrients can be stored in normal warehouse areas and are not affected by freezing temperatures. Micrel Total has a citric acid chelate and has an acid pH. Always store in original container and keep sealed.

Mixing: Micrel Total is compatible with other technical chemicals including fungicides and can be mixed and sprayed in one application. Do not mix with highly alkaline materials.

Manufactured By:

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