



Super Start 12-45-10 PLUS

- **Establishes seeds and seedlings fast**
- **Develops strong roots**

Super Start 12-45-10^{PLUS} is especially designed as a starter solution which aids plants in rooting faster. It helps overcome transplanting shock. Its nitrogen content is low enough to prevent burning and still promote new top growth. Super Start is widely used in greenhouse

and nursery operations to correct and supplement low phosphorous levels in established plantings. It is also very effective in promoting blossoming. Young vegetable plants being set in the field respond especially well to this starter formula. Use for seedling, transplants and rooted cuttings. Excellent for container azaleas and rhododendrons to promote compact growth and increase bud density.

Guaranteed Analysis (For continuous liquid feeding)

12-45-10+	Percent	Lbs/Ton	Concentration at
Total Nitrogen (N)	12%	240	200 PPM as N
9.11% Ammoniacal Nitrogen			
2.89% Nitrate Nitrogen			
Available Phosphate (P ₂ O ₅)	45%	900	750 PPM as P ₂ O ₅
Soluble Potash (K ₂ O)	10%	200	167 PPM as K ₂ O
Magnesium	0.05%	1.0	0.83 PPM as Mg
Sulfur (S)	0.31%	6.2	5.2 PPM as S
0.31% Combined Sulfur (S)			
Boron (B)	0.02%	0.4	0.33 PPM as B
Copper (Cu)	0.05%	1.0	0.83 PPM as Cu
0.05% Chelated Copper (Cu)			
Iron (Fe)	0.10%	2.0	1.67 PPM as Fe
0.10% Chelated Iron (Fe)			
Total Manganese (Mn)	0.05%	1.0	0.83 PPM as Mn
0.05% Chelated Manganese (Mn)			
Molybdenum (Mo)	0.001%	0.02	0.0167 PPM as Mo
Zinc (Zn)	0.05%	1.0	0.83 PPM as Zn
0.05% Chelated Zinc (Zn)			

Derived from Ammonium Sulfur, Ammonium Phosphate, Potassium Nitrate, Magnesium Sulfate, Borax, Sodium Molybdate, and the EDTA forms of Copper, Iron, Manganese and Zinc. CAUTION: This fertilizer is to be used on soils which responds to molybdenum. Crops high in molybdenum are toxic to grazing animals. Potential acidity equivalent to 737 lbs. Calcium Carbonate per ton.

GREENHOUSE MIXING RATE FOR 200 PPM NITROGEN

HOSE END SPRAYER: 1:15 ratio- Premix 3.33 oz. in 1 gallon (25 grams per liter).

TANK: 0.22 oz. per gallon (1.67 grams per liter).

PROPORTIONER: 1:100 ratio use 22.21 oz. per gal. of concentrate (167 grams per liter).

OTHER RATIOS: Multiply ratio times weight divided by 100.

OTHER PPM: Multiply desired PPM times weight divided by 200. Increase or decrease PPM according to crop response.

NITROGEN PARTS PER MILLION CHART

Parts per Million	50	100	150	200	300	400
Injector Ratios	Ounces required per gal of concentrate					
1:15	.83	1.67	2.50	3.33	5.00	6.66
1:50	2.78	5.55	8.33	11.11	16.66	22.21
1:100	5.55	11.11	16.66	22.21	33.30	44.43
1:200	11.11	22.21	33.32	44.43	*	*
1:300	16.66	33.32	49.98	*	*	*

EC (+ - 10%) mmhos/cm.36 .71 1.07 1.42 2.13 2.84

*Maximum solubility approx. 60 oz. per gallon

Available in standard 25 lb bag and 5 lb bags packed 6 per case.

To Order Use Code:

25 lb Bag: 124510+
Case of 6X5 lb: PM5124510