

ASSURE 12-2-18

An Engineered Problem Solving Fertilizer

High Potash With Potassium Nitrate For Quicker, More Efficient Plant Uptake. With Minor Nutrients.

Total Nitrogen (N).....	12.0%
3.0% Nitrate	
0.7% Ammoniacal N	
0.5% Urea Nitrogen	
2.7% Slowly Available	
Water Soluble N*	
5.1% Water Insoluble N*	
Available Phosphate (P205).....	2.0%
Soluble Potash (K205).....	18.0%
Calcium (Ca).....	1.0%
Magnesium (Mg).....	1.0%
Total Sulfur (S).....	2.0%
1.0% Sulfur, Combined	
Iron (Fe).....	2.0%
Copper (Cu).....	0.20%
Total Manganese (Mn).....	0.20%
0.05% Water Soluble Mn	
Zinc (Zn)	0.10%

Derived from: Feather meal, meat and bone meal, potassium sulfate, potassium nitrate, dicalcium phosphate, monoammonium phosphate, kelp meal, ferric oxide, urea, methylene urea, magnesium oxide, manganese oxide, zinc oxide, cupric oxide.

***This product contains 7.8% slow or controlled release nitrogen derived from feather meal and methylene urea**

Spreader Setting Information:
READ BEFORE USING PRODUCT

Typical Spreader Settings: 12-2-18

Lbs. N/1,000 sq.ft.	1/2.....	3/4.....	1.0
Sq.ft./50 lb. Bag	12,000.....	8,000.....	6,000
Sq. meter/22.7 Kg bag ..	1,115.....	744.....	558
Cyclone	3 3/4 ...	4 3/4	5 3/4
Earthway Rotary.....	15.....	17.....	19
Lesco	I.....	J.....	K
PSB Priselawn	4.....	5.....	6
Scotts RX7	F.....	H.....	J
Scotts R8	I.....	L.....	N
Spyker	3.9.....	4.5.....	5.

BROAD SPECTRUM INOCULANT: 66 STRAINS

Bacillus: 46 strains to include

Bacillus subtilis	Bacillus licheniformis
Bacillus megaterium	Bacillus pumilis
Bacillus azotoformans	Bacillus coagulans
Bacillus firmus	Bacillus amyloliquefaceans
Paenibacillus polymyxa	Paenibacillus durum
Bacillus azotoformans	Bacillus coagulans
Geobacillus stearothermophilus	

Endospore formers (survive in harsh environments)
Free living nitrogen fixers
Solubilize minerals & nutrients in soil profile
Enhance nutrient absorption
Enhance photosynthetic capacity
Produce plant regulatory compounds (growth promotion)

Pseudomonas: 6 Strains to include

Pseudomonas putida; Pseudomonas fluorescence
Pseudomonas aureofaceans

Provide increased resistance to abiotic stress
Produce plant regulatory compounds (growth promotion)
Enhance photosynthetic capacity
Free living nitrogen fixers

Streptomycetes: 7 Strains to include

Streptomyces lydicus; Streptomyces griseus,
Streptomyces coelicolor

Prolific enzyme producers (nutrient solubilization)
Produce plant regulatory compounds (growth promotion)
Enhance soil structure.

Trichoderma: 7 Strains

Trichoderma reesei; Trichoderma hamatum;
Trichoderma harzianum

Solubilize phosphorous in the soil
Facilitate nutrient absorption
Provide increased resistance to abiotic stress

Microbial Nutrients

Dextrose 55.00 %, 10.00% Sucrose,
3.00 % Amino Acids **Amino Acids to include Methione,**
3.0 % Vitamin Blend (B Complex, Biotin),
2.50 % Natural Silica (Drying Agent)