

# ASSURE 12-0-18

## An Engineered Problem Solving Fertilizer

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

Total Nitrogen (N).....	12.0%
4.00% Nitrate Nitrogen	
0.55% Ammoniacal Nitrogen	
0.55% Urea Nitrogen	
2.00% Water Soluble Nitrogen*	
4.90% Water Insoluble Nitrogen*	
Soluble Potash (K2O5).....	18.0%
Calcium (Ca).....	2.0%
Magnesium (Mg).....	0.50%
Iron (Fe).....	1.0%
Copper (Cu).....	0.10%
Total Manganese (Mn).....	0.10%
0.05% Water Soluble Mn	
Zinc (Zn) .....	0.10%

**Derived from:** Potassium nitrate, feather meal, methylene urea, potassium sulfate, calcium carbonate, urea, meat and bone meal, kelp meal, ferrous oxide, magnesium oxide, manganese oxide, copper oxide, zinc oxide.

**\*This product contains 6.90% slow or controlled release nitrogen derived from feather meal and methylene urea**

### Spreader Setting Information: READ BEFORE USING PRODUCT

Typical Spreader Settings:	12-0-18
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
<b>Bacillus firmus</b>	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)