



# TECHNICAL DATA SHEET

## 11-37-0 AMMONIUM POLYPHOSPHATE SOLUTION

### Guaranteed Analysis:

	<u>Percent</u>
Total Nitrogen as N 11.0 .....	11.0
Total P2O537.0 .....	37.0

### Typical Analysis:

Nitrogen as N .....	11.1
Phosphorus as P <sub>2</sub> O <sub>5</sub> .....	37.2
Polyphosphate % of Total P .....	72.0
Phosphorus as P <sub>2</sub> O <sub>5</sub> .....	16.14
Iron as Fe <sub>2</sub> O <sub>3</sub> .....	0.5
Aluminum .....	0.5
Magnesium as MgO .....	0.15
Fluoride as F.....	0.12
Sulfate as SO <sub>4</sub> .....	1.4
Calcium as CaO .....	0.01

### Typical Properties:

Specific Gravity @ 75° .....	1.430
Pounds/Gallon .....	12.0
Pounds Nitrogen/Gallon .....	1.32
Pounds P <sub>2</sub> O <sub>5</sub> /Gallon .....	4.4
Pounds P/Gallon .....	1.92
Gallons/Ton .....	167.2
Freezing Point .....	<-0°F
Viscosity @ 65° F .....	125 CPS
pH .....	6.15
Solids .....	0.0
Color .....	Green

### Other:

P.I.N. (D.O.T) .....	None
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### General Information:

11-37-0 is produced by reacting Super-Phosphoric Acid and anhydrous ammonia to produce Ammonium Poly-Phosphate Solution that is clear, 100% water-soluble with a pH of 6.0, 11%N and 37% P2O5.

### Materials of Construction-Storage & Transfer Equipment:

1. Tank and vessels: 11-37-0 can be stored in mild steel non-pressure vessels.
2. Pumps, piping etc.: Use only pumps recommended for use with liquid fertilizers. Piping, valves and fittings may be mild steel or SCH 80 PVC. Galvanized pipe and brass fittings should be avoided.

### Uses/Compatibility/Stability:

1. 11-37-0 is a non-pressure solution that is well adapted to a wide range of application practices: direct application in pre-plant programs; injecting or banding in the soil; or applied through irrigation systems.
2. 11-37-0 is a good source of Nitrogen and Phosphorus nutrient for waste water treatment.
3. 11-37-0 is a compatible source of Phosphorus and Nitrogen used as a base solution when making complete formulations.
4. 11-37-0 is frequently used as a base in starter fertilizer formulations. It has an ideal N:P<sub>2</sub>O<sub>5</sub> ratio for many crops.
5. Stable under normal ambient conditions of temperature and pressure.

**NOTE:** 11-37-0 is not compatible with Aqua or Anhydrous Ammonia.

### Advantages:

1. 100% water soluble Phosphate....the form most efficiently utilized by plants.
2. Long lasting non-leachable Nitrogen....the Nitrogen is in the Ammonium form, which resists leaching and provides Nitrogen to the plant over a longer period of time.
3. Low volatility.....form of Nitrogen and Phosphorus that resists volatility.
4. Nitrogen and Phosphorus combination improves nutrient uptake.....ammoniacal form of Nitrogen combined with Phosphorus helps the plants to utilize the Phosphorus more efficiently.
5. Helps uptake of micronutrients.....it contains Polyphosphates which sequester micronutrients in solution, making them more available for plant uptake.

### Safety:

Ammonium Polyphosphate Solution (11-37-0): moderate eye and skin irritation; not generally considered toxic; non-flammable; non-D.O.T. regulated. No placards required.

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