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# 10-34-0 AMMONIUM POLYPHOSPHATE SOLUTION

Guaranteed Analysis:	<u>Percent</u>	Typical Properties:	
Total Nitrogen as N	10.0	Specific Gravity @ 75°	1.392
Total P <sub>2</sub> O <sub>5</sub>	34.0	Pounds/Gallon	11.63
		Pounds Nitrogen/Gallon	1.16
Typical Analysis:		Pounds P <sub>2</sub> O <sub>5</sub> /Gallon	3.95
Nitrogen as N	10.5	Pounds P/Gallon	1.72
Phosphorus as P <sub>2</sub> O <sub>5</sub>	34.15	Gallons/Ton	172
Polyphosphate % of Total P <sub>2</sub> O <sub>5</sub>	72.5	Freezing Point	<-15°F
Phosphorus as P		Viscosity @ 65°F	
Iron as Fe <sub>2</sub> O <sub>3</sub>	0.5	pH	
Aluminum	0.4	Solids	0.0
Magnesium as MgO	0.13	Color	Light Green
Fluoride as F			· ·
Sulfate as SO <sub>4</sub>		Other:	
Calcium as CaO		P.I.N. (D.O.T.)	None

### General Information:

10-34-0 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, 10% N and 34% P2O5.

## Materials of Construction-Storage & Transfer Equipment:

- 1. Tank and vessels: 10-34-0 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. Galvanized pipe and brass fittings should be avoided.

## Uses/Compatibility/Stability:

- 1. 10-34-0 is a non-pressure solution that is well adapted to a wide range of application practices: direct application in pre-plant plow-down programs; injecting or banding in the soil; or applied through irrigation systems; also a source of Nitrogen and Phosphorus nutrient for waste water treatment.
- 2. 10-34-0 is a compatible source of Phosphorus and Nitrogen used as a base solution when making complete mixes.
- 3. 10-34-0 is frequently used as a starter fertilizer application (an ideal N:P<sub>2</sub>O<sub>5</sub> ratio for many crops).
- 4. Stable under normal ambient conditions of temperature and pressure.

NOTE: 10-34-0 is not compatible with Agua 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 intake--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.
- Easy to handle--no bags to lift, break or dispose of. Pumps or gravity do the work.

#### Safety:

Ammonium Polyphosphate Solution (10-34-0): moderate eye and skin irritation; not generally considered toxic; non-flammable; non-D.O.T. regulated. No placards required.