11-37-0
AMMONIUM POLYPHOSPHATE SOLUTION

Guaranteed Analysis: 
Percent
Total Nitrogen as N...............................................11.0
Total P₂O₅............................................................37.0

Typical Analysis:
Nitrogen as N....................................................11.1
Phosphorus as P₂O₅...............................................37.2
Polyphosphate % of Total P₂O₅.................................72.0
Phosphorus as P...................................................16.14
Iron as Fe₂O₃......................................................0.5
Aluminum ...........................................................0.5
Magnesium as MgO..............................................0.15
Fluoride as F.......................................................0.12
Sulfate as SO₄......................................................1.4
Calcium as CaO...................................................0.01

Typical Properties:
Percent
Specific Gravity @ 75°.............................................1.430
Pounds/Gallon......................................................12.0
Pounds Nitrogen/Gallon..........................................1.32
Pounds P₂O₅/Gallon..............................................4.4
Freezing Point.....................................................<0°F
Viscosity @ 65°F....................................................125 CPS
pH.................................................................6.15
Solids.............................................................0.0
Color.............................................................Light Green

Pounds/Gallon
Pounds P/Gallon..................................................1.92
Gallons/ Ton.......................................................167.2

Pounds Nitrogen/Gallon
Other:
P.I.N. (D.O.T.)......................................................None

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. 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 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. 11-37-0 is a compatible source of Phosphorus and Nitrogen used as a base solution when making complete mixes.
3. 11-37-0 is frequently used as a starter fertilizer application (an ideal N:P₂O₅ ratio for many crops).
4. 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 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.
6. Easy to handle--no bags to lift, break or dispose of. Pumps or gravity do the work.

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.