

# At A Glance

## AMMONIUM NITRATE SOLUTION – 21%

### Description

Ammonium Nitrate (AN) Solution - 21% consists of pure ammonium nitrate and water. A fast acting nitrogen source from Ammoniacal and Nitrate Nitrogen that can be applied directly to the soil or through irrigation water.

### Handling and Storage

Ammonium nitrate solutions should be stored in stainless steel or other corrosion resistant tanks. Pipe lines and fittings should be of similar materials. These solutions must be stored above their salting-out temperatures. Always conduct a jar test with new tank mixes to verify compatibility.

### Shipping

Ammonium Nitrate Solution – 21% is classified as a non hazardous material by the US Department of Transportation.

### Functions of Nitrogen in Plants

- Mainly involved in photosynthesis
- Essential component of chlorophyll
- Promotes plant fruit set and vigor

### Symptoms of Nitrogen Deficiency

- Yellowing of leaves (oldest first)
- Poor/Stunted growth
- Overall less foliage canopy



### Chemical & Physical Properties

CAS Number	6484-52-2
Molecular Weight	N/A
Specific Gravity @ 60°F (15.5°C)	1.287
pH	6.0 – 7.0
Salt-Out Temperature	51°F (10.5°C)
Color	Clear
Odor	Little to no detectable odor
Weight per Gallon @ 60°F (15.5°C)	10.73 lbs/gal (1.29 kg/L)
Gallons per ton	186.39

### Typical Analysis

Total Nitrogen	21%
10.5% Ammoniacal Nitrogen	
10.5% Nitrate Nitrogen	
Ammonium Nitrate	60%
Free Ammonia	< 0.02%
Water (Approx)	40%

The data presented herein are believed to be accurate but are in no way guaranteed. TradeMark Nitrogen Corp. makes no warranties, express or implied, that any of the above data is fit for any particular use and expressly disclaims all oral warranties of any kind.

Rev: 2022-7



#### TradeMark Nitrogen Corp.

1216 Old Hopewell Road  
Tampa, Florida 33619 USA  
www.trademarknitrogen.com  
800 452 3107  
813 626 1181