TECHNICAL DATA SHEET

AMMONIUM NITRATE

83% Liquor

Properties

SDS #1021

Ammonium Nitrate % by weight

Water % by weight

82.0 to 86.0 14.0 to 18.0

Free Ammonia % by weight

0.0015 to 0.0065

Phosphate ion by weight maximum

15 ppm

Sulfonate ion by weight maximum

50 ppm

Color; Metal Oxide Turbidity (MOT)

65 color unit maximum

pH (eutectic point titration)

4.60 to 5.25 one Molar Solution

pH (ATC pH probe)

2.0 minimum - 6.0 maximum

Salt-out Temperature (open vessel) Salt-out Temperature (closed vessel)

160 to 170°F 153 to 163°F

Storage Temperature (summer)

< 225°F

Storage Temperature (winter)

> 235°F

Weight @ 200°F lbs/gallon

11.33 to 11.50

Hazardous Shipping Description

- AMMONIUM NITRATE is placarded as an oxidizer that is transported under a hazard classification 5.1.
- It may also have a "HOT" label on the trailer.
- The shipment will be marked with international transportation number UN 2426 which may be incorporated into the placard.



PRODUCT DESCRIPTION

AMMONIUM NITRATE LIQUOR is a clear colorless liquid that is heated to > 225°F to keep the salt dissolved in solution. It is infinitely soluble in water and does not precipitate with any common chemical.

APPLICATION RECOMMENDATIONS

 The hot AMMONIUM NITRATE LIQUOR is used extensively in the mining industry. Consult your Dyno Nobel representative for additional details.

TRANSPORTATION, STORAGE AND HANDLING

- · Consult the many publications that address transportation, storage and handling of AMMONIUM NITRATE.
- The Fertilizer Institute: AMMONIUM NITRATE Packaging, Handling, Transportation, Storage and Use.
- Bureau of Mines: I 28.23:6773 Explosive Hazards of AMMONIUM NITRATE Under Fire Exposure.
- International Fertilizer Industry Association: Handbook for the Safe Storage of AMMONIUM NITRATE Based Fertilizers.
- Hot concentrated AMMONIUM NITRATE solution poses a great health hazard to the handler. If tissue is contacted with this hot solution, it can cause instantaneous third degree burns. ALWAYS wear liquid impervious clothing, gloves and boots. ALWAYS protect eyes and face with shield when loading.
- Any AMMONIUM NITRATE can decompose into ammonia and nitric acid fume at 350°F
- ALWAYS wash vessels containing AMMONIUM NITRATE before attempting repairs requiring welding.
- Should a large spill of AMMONIUM NITRATE solution occur, ALWAYS restrict it from the drainage. The high nitrogen content (29%) may kill foliage, if not diluted.
- AMMONIUM NITRATE can be handled by the municipal water treatment facility if spilled in a municipality.

ADDITIONAL INFORMATION – Visit dynonobel.com for Brochures and Case Studies related to this product.



