UREA AMMONIUM NITRATE

UAN Fertilizer Solution—32%

Product Description
The UREA/AMMONIUM NITRATE (UAN) solution is created by dissolution of the amide and nitrate salt in water. It may have a slight ammonia odor. Approximately 35% UREA blended with 45% AMMONIUM NITRATE makes a fertilizer solution that is 32% nitrogen by weight.

Application Recommendations
The lowest salt-out temperature possible for UAN 32 is 32°F at a ratio of 1.30 AMMONIUM NITRATE to UREA.
UREA is used as a slow release fertilizer. It must be decomposed by microorganisms before it can be assimilated by plants. The AMMONIUM NITRATE is the fast release part of the fertilizer. The plants quickly absorb the nitrate ion and ammonium ion for immediate metabolism.
Consult your local fertilizer dealer for application recommendations.

Transportation, Storage and Handling
• The transport of UAN does not require a DOT placard
• UREA/AMMONIUM NITRATE solution will decompose into ammonia, carbon dioxide and nitric acid at 237°F
• ALWAYS wash vessels containing UAN thoroughly before attempting repairs requiring welding
• ALWAYS restrict it from the drainage Should a large spill of UAN solution occur. The high nitrogen content (32%) will kill foliage if not diluted
• UAN can be handled by the municipal water treatment facility if spilled in a municipality

Total Nitrogen % by weight minimum 32
Urea % by weight typical 40.9 to 31.2
Amine Nitrogen from Urea % by weight 19.1 to 14.5
Ammonium Nitrate % by weight typical 36.9 to 49.9
Nitrate Nitrogen from Ammonium Nitrate % by weight 10.0 to 13.5
% Ammoniacal Nitrogen from Ammonium Nitrate % by weight 2.9 to 3.9
Ammonia % by weight typical < 0.15 maximum (unbound)
Water % by weight typical 22.1 to 18.8
Ammonium Nitrate to Urea Ratio 0.9 to 1.6
Corrosion inhibitor % by weight typical 0.03 to 0.05
Solution Weight at 60°F (lbs/gal) ~11
Salt-out temperature °F 40° to 32°
Fertilizer Nutrition Designation 32-0-0

Hazardous Shipping Description
• There are no DOT restrictions, other than weight, to transport UAN 32
• Consult MSDS #1138 for more specific and comprehensive information about chemical hazards

Product Disclaimer
Dyno Nobel Inc. and its subsidiaries disclaim any warranties with respect to this product, the safety or suitability thereof, or the results to be obtained, whether express or implied, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND/OR OTHER WARRANTY. Buyers and users assume all risk, responsibility and liability whatsoever from any and all injuries (including death), losses, or damages to persons or property arising from the use of this product. Under no circumstances shall Dyno Nobel Inc. or any of its subsidiaries be liable for special, consequential or incidental damages or for anticipated loss of profits.