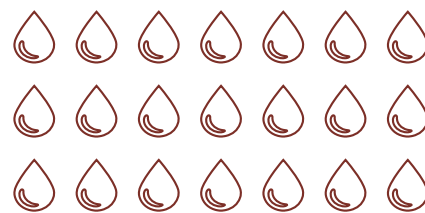


LOVODAM 30

UAN - Urea Ammonium Nitrate Solution

Liquid Nitrogen Fertilizer



COMPOSITION, APPEARANCE AND PROPERTIES

Urea Ammonium Nitrate Solution (UAN) is a liquid nitrogen fertilizer, containing 30% of nitrogen, thereof 1/4 in an ammonia form, 1/4 in a nitrate-form and 1/2 in an amide form. It consists of solutions of ammonium nitrate and urea. In 100 litres, it contains 39 kg N, at 25°C it has a density of 1.300 kg/m³. The salting-out temperature is -10°C, after a temperature increase, the precipitated matters go over back to the solution without any negative influence on the fertilizer quality.

APPLICATION

UAN is used for basic fertilization prior to seeding or planting, for additional fertilization during the vegetation time and for acceleration of decomposition of ploughed-in straw. The application can be realized by means of sprayers

or of a sprinkler irrigation, but also by spraying from airplanes. For the basic fertilization, it can be used undiluted, to all crops, most often during the preseeding soil preparation. For the additional fertilization during the growing time, it is used either concentrated (cereals, rape, grass growths) or diluted (for most of other crops), It fits very appropriately into the system of stocking-up fertilization with phosphorus and nitrogen. Also, it acquits itself well in the system of minimal soil working for catch crops. For seeds, which are sensitive to higher concentrations of ammonia nitrogen (clover, beat etc.), we never use UAN immediately before the seeding. The application of permitted combinations of UAN with the agents for chemical protection of plants is economically advantageous. During the application, the corresponding regulations for protection of bees must be observed.

CHEMICAL AND PHYSICAL PROPERTIES

Quality characteristics	Value
Total nitrogen content in %	30
Amide nitrogen content in %	15
PH value of diluted solution (1:5) at 20°C	7.2-7.9

PACKAGING, TRANSPORT AND STORAGE

UAN is transported in railway tankers, road tankers or other proper containers, agreed upon with the customer and corresponding with the valid regulations.

UAN is stored in closed bins and during the storage, neither a total nor a local overheating above the temperature 130°C must occur. The fertilizer causes a corrosion of non-ferrous metals (espe-

cially of copper alloys). The bins, transport containers and the application machinery must be properly rinsed with water, immediately after the application.

UAN as well as the residues of its application solutions must not contaminate the water resources including the receiving bodies of surface waters. The product is not a subject to ADR regulations.



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