

UREA SOLUTION – 40-50% INDUSTRIAL GRADE

DESCRIPTION

Used internationally as a nitrogen fertilizer, urea also has many industrial applications. The most predominate use is in the manufacturing of adhesives, such as urea-formaldehyde resin, which in turn are utilized in wood panels, construction and automotive industries. Urea is also consumed in animal feeds, other chemical manufacturing, as an alternative to rock salt for de-icing, as an effluent treatment plant or fermentation nutrient and is growing in diesel emissions control.

Urea solution can be custom manufactured to meet the requirements of any customers, but is typically sold from Sylvite at 40% or 50% urea in water solution. Temperature determines whether the urea will stay in solution or decompose or salt out (precipitate), therefore for Urea Solution 40%, Sylvite recommends maintaining a temperature above 7°C or 44°F to ensure product quality and for Urea Solution 50%, product temperature should be kept above 15°C or 59°F.

TYPICAL PHYSICAL PROPERTIES

Parameters	Limits
Biuret	Max. 0.5 wt%
Free NH ₃	≤ .25 %
pH	8.0-10.5
Purity	> 97%
Appearance	White, colourless liquid, with slight ammonia odour
Specific Gravity of 40% (@ 15°C/59°F)	1.115
Salt out Temperature (40% solution)	0.5°C / 33°F

Note: Additional specifications are available on custom basis and may vary depending on location of production due to variances in dilution water specifications.

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