



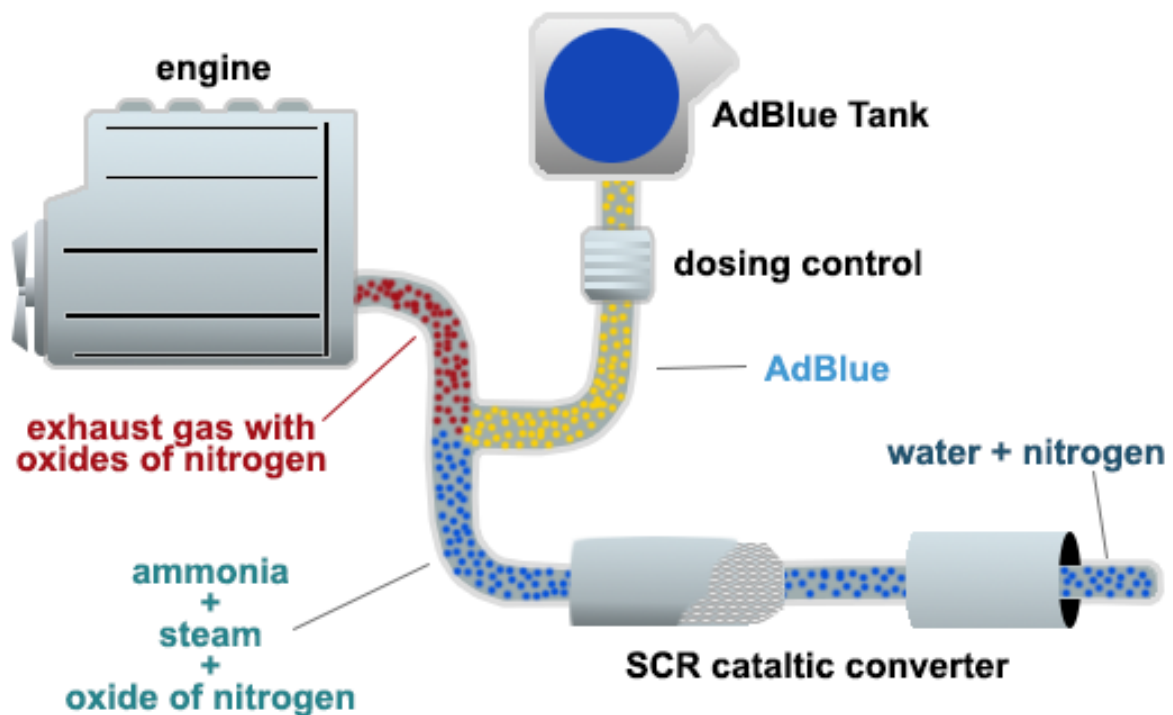
## UltraGreen Adblue®

Aqueous Urea Solution 32.5%

### Product Description

AdBlue is a high-quality solution of 32.5 % urea and 67.5 % water, specially developed for the automotive Selective Catalytic Reduction (SCR) catalyst. By injecting AdBlue into the SCR catalyst nearly all harmful nitrogen oxides (NOx) are converted into harmless nitrogen gas and water vapour. AdBlue makes the catalytic process run effective and optimally. AdBlue is prescribed by various truck manufacturers such as Daimler and DAF. AdBlue meets the requirements of the standard ISO 22241-1 : 2006. AdBlue is an additive necessary for trucks with a SCR catalyst, trucks must meet EURO IV, EURO V and EURO VI emission standards. The use of AdBlue and the SCR catalyst makes a different engine configuration possible, whereby fuel saving can be realized.

When using SCR technique, a urea solution (AdBlue) is injected into the exhaust gases. Subsequently the mixture passes through an SCR catalyst, where urea and NOx react into nitrogen, and water (see picture below). An electronic control system continuously adjusts the injected quantity to the NOx content of the exhaust gases.





## Application

- Suitable for both commercial vehicles and passenger vehicles with Euro V and Euro VI emission standard vehicles with SCR Technology
- Suitable to replace any automotive urea solution products included Adblue®, DEF, AUS32.

## Shelf Life

- AdBlue can be kept for 18 months after production in closed containers and at storage temperatures below 25 ° C

## Specifications

Ultra-Pure Adblue meets:

- ISO 22241
- DIN 70070
- AUS32
- VDA QMC

## Properties

Characteristics	Unit	Limits
Appearance	--	Colourless, Clear Liquid
Adour	--	Slight Ammonia
Urea Content	%(m/m)	31.8-33.2
Density at 20C	g/cm3	1.0870-1.0930
Refractive Index at 20C	--	1.3814-1.3843
Alkalinity	% w/w	0.2 max.
Biuret	% w/w	0.3 max.
Aldehydes	mg/kg	5 max.
Insolubles	mg/kg	20 max.
Phosphate	mg/kg	0.5 max.
Calcium	mg/kg	0.5 max.
Iron	mg/kg	0.5 max.
Copper	mg/kg	0.2 max.
Zinc	mg/kg	0.2 max.
Chromium	mg/kg	0.2 max.
Nickel	mg/kg	0.2 max.
Aluminium	mg/kg	0.5 max.
Magnesium	mg/kg	0.5 max.
Sodium	mg/kg	0.5 max.
Potassium	mg/kg	0.5 max.

The specification will be amended as per the changes in the standards ISO22241-1

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for his own particular use.

Adblue® is a registered trademark of the 'Verband der Automobilindustries e.V.' (VDA)