



**ALLIANCE  
TRUCK PARTS**

# ADBLUE



# ALLIANCE AdBLUE: SPECIALLY BLENDED FOR YOUR SCR SYSTEM

AdBlue® is a urea-based chemical Diesel Exhaust Fluid (DEF) reactant designed specifically for use in Selective Catalytic Reduction (SCR) systems to reduce NOx emissions. AdBlue® is prepared by dissolving solid high purity urea in deionized water to create a 32.5% solution in water. AdBlue® and similar urea-based products are widely used today for a variety of agricultural and industrial needs. Alliance AdBlue® meets ISO 22241 specifications for purity and composition and is:

- Non-toxic and non-polluting
- Non-flammable
- Stable and colourless
- Non-hazardous
- Easy to handle

Material Safety Data Sheets (MSDS) are available from your Alliance Truck Parts Dealership.

AdBlue® is a registered trademark of the VDA (Verband der Automobilindustrie) which certifies that the producing company has been audited by VDA to produce and provide a product that fulfills the requirements of ISO 22241 and is authorised to use their trademark.

## OVERVIEW:

### EMISSIONS STANDARDS: THE RIGHT TECHNOLOGY MATTERS

In support of EPA latest emissions standards, NOx and particulate matter (PM) will be reduced by 90% from 2004 standards to near zero emissions levels. To meet these standards and the needs of customers, engine manufacturers have been investing in new and innovative technologies. The leading technology being used to achieve the emissions goals is Selective Catalytic Reduction (SCR). This proven aftertreatment technology enables the engine to be fully optimised for performance and fuel economy.

### THE SCR AFTERTREATMENT SYSTEM

The SCR aftertreatment system basically consists of three elements: catalyst, AdBlue® and AdBlue® dosing system.

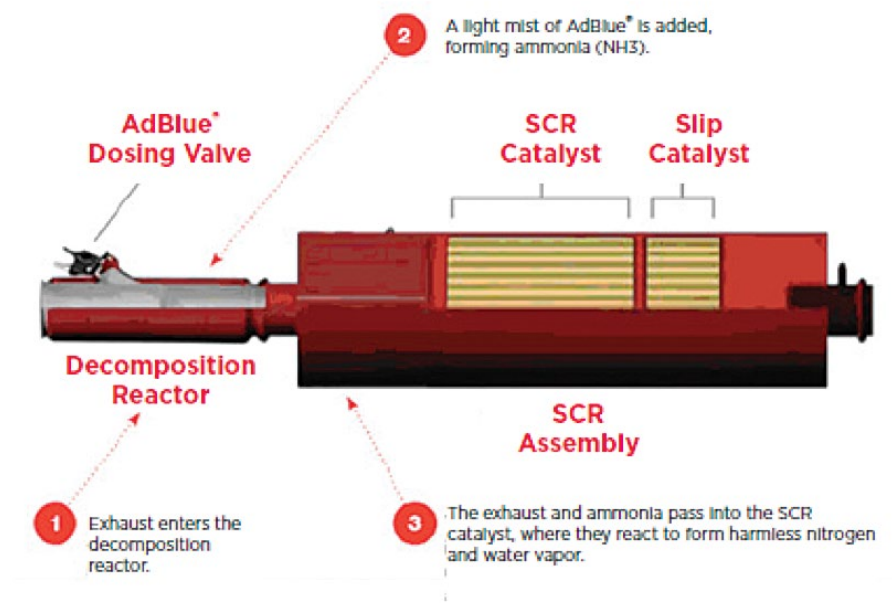


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## ADBLUE® STORAGE

Optimal storage temperatures for AdBlue® are between -12°C and 32°C. In cold temperature regions, it is recommended to keep AdBlue® IBCs in a storage unit. In warm temperature regions it is recommended to store AdBlue® IBCs in a shaded area. Since AdBlue® is corrosive to certain sensitive metals, such as aluminium, all AdBlue® equipment is made of an appropriate, heavy-duty and tamper-free form of durable composite material.

## VEHICLE OPERATION

Each SCR equipped vehicle carries AdBlue® in a storage tank. Depending on the OEM application, AdBlue® tank size ranges in capacity. The storage tank is designed in terms of a 2:1 ratio: a minimum of 2 diesel fill-ups corresponds to 1 AdBlue® fill-up. Cold temperatures are of no concern to drivers. During vehicle operation, the SCR system is designed to provide heating for the AdBlue® tank and supply lines. If AdBlue® freezes when the vehicle is shut down, start up and normal operation of the vehicle will not be inhibited. The SCR heating system is designed to quickly return the AdBlue® to liquid form and the operation of the vehicle will not be impacted.

## CALCULATING ADBLUE® USAGE

AdBlue® use is directly related to fuel consumption. AdBlue® consumption is expected to be approximately 2% of the diesel fuel consumed, dependent on application and vehicle operation – duty cycle, geography, ratings, etc. Another way to consider it is that AdBlue® will be consumed on a 50 to 1 ratio with diesel (for every 50 parts of diesel fuel burned, you will use 1 part of AdBlue®). A truck averaging 39L/100km can expect to go approximately 500km on around 5 litres of AdBlue®.



## PRODUCTS AVAILABLE

Alliance AdBlue® is available in bulk quantities. Please talk to your dealer today for more information.

## SPECIFICATIONS

| ALLIANCE PART #  | DESCRIPTION        |
|------------------|--------------------|
| Q ABP ADBLUE1000 | 1000 Litre AdBlue® |
| Q ABP ADBLUE205  | 205 Litre AdBlue®  |
| Q ABP ADBLUE20   | 20 Litre AdBlue®   |
| Q ABP ADBLUE10   | 10 Litre AdBlue®   |

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**FIND YOUR NEAREST LOCATION AT [ALLIANCETRUCKPARTS.CO.NZ](http://ALLIANCETRUCKPARTS.CO.NZ)**

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**DAIMLER TRUCK**