



AdBlue®



DESCRIPTION

High cleanliness, ready-to-use solution of 32.5 percent urea in ultra-pure water. It is used as an additive in heavy duty truck and bus diesel engines that are equipped with selective catalytic reduction (SCR) systems with the objective to reduce the engine nitrogen oxides.

APPLICATIONS

It is suitable for Euro IV and V (and in the future Euro VI) engines. It is NOT suitable for addition to the fuel tank. It is stored in steel tanks next to the fuel tank and is sprayed directly into the exhaust gases pipe. Its consumption is 3-4% (to cover Euro IV standards) and 5-7% (to cover Euro V standards) of the fuel consumption.

CHARACTERISTICS-BENEFITS

CHARACTERISTICS	
	High purity solution.
	Low consumption (3-7%) depending on the desired degree of coverage of Euro requirements.
	It is sprayed into the exhaust gases pipe.
	In accordance with ISO 22241 "Diesel engines-NOx reduction agent AUS32".

PHYSICAL-CHEMICAL CHARACTERISTICS

AdBlue®	METHOD	
Density at 20°C, g/cm ³	ASTM D1298	1.09
Refractive index at 25°C	ISO 22241-1	1.383
Alkalinity (NH ₃), %wt.	ISO 22241-1	<0.2
Boiling point, °C	ISO 22241-1	103
Melting point, °C	ISO 22241-1	-11
pH (100g/L) at 20°C	ISO 22241-1	10
Urea content	ISO 22241-1	31.8-33.2
Diuria	ISO 22241-1	<0.3
Insolubles, mg/kg	ISO 22241-1	<20
Aldehyde, mg/kg	ISO 22241-1	<5
Phosphates	ISO 22241-1	<0.5
Calcium	ISO 22241-1	<0.5
Iron	ISO 22241-1	<0.5
Copper	ISO 22241-1	<0.2
Zinc	ISO 22241-1	<0.2
Chromium	ISO 22241-1	<0.2
Nickel	ISO 22241-1	<0.2
Aluminium	ISO 22241-1	<0.5
Magnesium	ISO 22241-1	<0.5
Sodium	ISO 22241-1	<0.5
Potassium	ISO 22241-1	<0.5
Appearance	Optical	Colorless liquid

The above mentioned characteristics represent mean values.



AdBlue®



STORAGE-HANDLING

- Store AdBlue® away from the light.
- At -5°C it starts to crystallize, but the automatic warming system of the vehicle helps in making it liquid again within 20 minutes after engine start. During this time, the vehicle can be operated normally.
- If AdBlue® is stored outside the vehicle's tank, gently thaw it. Then, it can be used normally again.
- Keep the AdBlue® equipment clean, away from dust and dirt.
- AdBlue® shelf life is minimum 12 months if it is stored at a temperature below 25°C, as it begins to decompose.
- Only use product delivered into dedicated and sealed AdBlue® packaging.
- AdBlue® is classified as non-hazardous: in case of contact with skin or clothes, it is recommended to rinse with water.
- AdBlue® can have a corrosive action on certain metals: in case of spilling, rinse with water.
- Do not use equipment (canisters, etc.) used for other liquids to refill or store AdBlue®.
- Close tightly the AdBlue® tank and canister after refill.

SPECIFICATIONS

CEFIC AUS32; ISO 22241; DIN 70070