

TECHNICAL PRODUCT SHEET

## AdBlue<sup>®</sup>



### DESCRIPTION

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AdBlue<sup>®</sup> is a high-purity, ready-to-use aqueous solution consisting of 32.5% synthetic urea dissolved in ultra-pure demineralized water. It is specifically formulated for use in diesel-powered vehicles equipped with Selective Catalytic Reduction (SCR) systems, including passenger cars, trucks, and buses. When injected into the exhaust stream, AdBlue<sup>®</sup> facilitates the conversion of nitrogen oxides (NO<sub>x</sub>) into harmless nitrogen and water vapor, supporting compliance with stringent emission standards. Its controlled composition and cleanliness ensure reliable SCR system performance and prevent deposits or catalyst contamination during operation.

### APPLICATIONS

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AdBlue<sup>®</sup> is suitable for use in diesel engines compliant with Euro IV and Euro V emission standards and is fully compatible with future Euro VI SCR systems. The solution is stored in a dedicated steel tank located adjacent to the vehicle's fuel tank and is metered directly into the exhaust stream, where it supports the catalytic reduction of nitrogen oxides. Typical consumption ranges from 3–4% of diesel usage for Euro IV requirements and 5–7% for Euro V operation, depending on engine load and duty cycle. AdBlue<sup>®</sup> must never be added to the fuel tank, as it is designed exclusively for use within the SCR dosing system.

### SPECIFICATIONS

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ISO 22241

DIN 70070

### PROPERTIES

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is a high-purity solution designed for efficient NO<sub>x</sub> reduction in diesel engine exhaust systems. Its optimized formulation ensures low consumption, typically ranging from 3–7%, depending on the desired level of compliance with Euro emissions requirements. The solution is introduced by controlled spraying directly into the exhaust stream, where it contributes to the selective catalytic reduction (SCR) process. Manufactured in full accordance with ISO 22241 "Diesel engines – NO<sub>x</sub> reduction agent AUS32," it guarantees compatibility, safety, and consistent performance in SCR-equipped vehicles and industrial diesel applications.



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### PHYSICAL-CHEMICAL CHARACTERISTICS

AdBlue <sup>®</sup>	METHOD	
Density at 20°C, g/cm <sup>3</sup>	ISO 12185	1.09
Refractive index at 25°C	ISO 22241-1	1.383
Alkalinity (NH <sub>3</sub> ), %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, %wt	ISO 22241-1	31.8-33.2
Diuria, %wt	ISO 22241-1	<0.3
Insolubles, mg/kg	ISO 22241-1	<20
Aldehydes, mg/kg	ISO 22241-1	<5
Phosphates, mg/kg	ISO 22241-1	<0.5
Calcium, mg/kg	ISO 22241-1	<0.5
Iron, mg/kg	ISO 22241-1	<0.5
Copper, mg/kg	ISO 22241-1	<0.2
Zinc, mg/kg	ISO 22241-1	<0.2
Chromium, mg/kg	ISO 22241-1	<0.2
Nickel, mg/kg	ISO 22241-1	<0.2
Aluminium, mg/kg	ISO 22241-1	<0.5
Magnesium, mg/kg	ISO 22241-1	<0.5
Sodium, mg/kg	ISO 22241-1	<0.5
Potassium, mg/kg	ISO 22241-1	<0.5
Appearance	Visual	Colorless liquid

The abovementioned characteristics represent mean values.

### STORAGE

- Store AdBlue<sup>®</sup> away from the sunlight
- 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<sup>®</sup> has been stored outside the vehicle's tank and has frozen, gently thaw it. It can then be used normally again
- Keep the AdBlue<sup>®</sup> equipment clean, away from dust and dirt
- AdBlue<sup>®</sup> shelf life is minimum 12 months if it is stored at a temperature below 25°C
- Only use product delivered into dedicated and sealed AdBlue<sup>®</sup> packaging
- AdBlue<sup>®</sup> is classified as non-hazardous: in case of contact with skin or clothes, it is recommended to rinse with water
- AdBlue<sup>®</sup> 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<sup>®</sup>
- Close tightly the AdBlue<sup>®</sup> tank and canister after refill



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#### HEALTH & SAFETY

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This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



#### USED OILS

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Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

