



Product name: SHELL AdBLUE
Product code: CRX178

Supplier: Kemetyl Polska, Sp. z o.o.,
Al. Jerozolimskie 146, 02-305 Warszawa,
ph: +48 22 822 5390

1. Composition/ information on ingredients

Shell AdBlue® is a high-quality odorless, clear, synthetic aqueous solution of urea. Product meets standards DIN 70070 and ISO22241. Shell AdBlue® is an additive used in SCR technology.

2. Application

The main purpose of the product is to reduce emissions of flue gas to the environment. SCR technology and AdBlue Shell respond to European regulations of reducing emission of flue gas - technology Selective Catalytic Reduction (SCR) with AdBlue injection has significantly lower emissions, enabling the fulfillment of the requirements for exhaust emission standards Euro 6 vehicles.

AdBlue, with catalytic transformer, acts as a reducing agent which converts nitrogen oxides (NOx) into harmless nitrogen and water.

AdBlue can be used only on vehicles equipped with SCR (which have a separate tank for the AdBlue).

3. How to use

Shell AdBlue® is intended only (application is expand) for trucks with diesel technology used selective catalytic reduction (SCR). Always follow the advice of your vehicle manufacturer. Pour directly into a special tank of cleaning system. Store in a tightly closed container at a temperature from -5°C to 25°C. Do not store in direct sunlight.

NOTE: Shell AdBlue® is not an fuel additive. Do not add it to the fuel tank, but the tank of cleaning system.

Vehicles that Shell AdBlue® should be used have special tanks for tanking this product. Detailed information is included in the vehicle manual because introduction of SCR technology resulted in structural changes in cars.

4. Physical and chemical properties.

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| Physical state: | liquid |
| Colour: | transparent to light yellow |
| Odor: | odorless with a slight smell of ammonia |
| The urea content,% (m/m) | 31.8 - 33.2 |
| Boiling point: | unspecified (> 100°C) |
| Density (at 20°C), kg/m ³ | 1.087 – 1.093 |
| pH | 8 - 10 |
| The refractive index | 1.3814 - 1.3843 |
| Alkalinity as NH ₃ ,% (m/m) | ≤ 0.2 |
| Biuret content,% (m/m) | ≤ 0.3 |
| Aldehyde content, mg/kg | ≤ 5 |
| The content of insoluble matter, mg/kg | ≤ 20 |
| The content of phosphate (PO ₄), mg/kg | ≤ 0.5 |
| Calcium, mg/kg | ≤ 0.5 |



TECHNICAL DATA SHEET (TDS)

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|------------------------------|---------|
| The iron content, mg/kg | ≤ 0.5 |
| Copper, mg/kg | ≤ 0.2 |
| The zinc content, mg/kg | ≤ 0.2 |
| The chromium content, mg/kg | ≤ 0.2 |
| The nickel content, mg/kg | ≤ 0.2 |
| The aluminum content, mg/kg | ≤ 0.5 |
| The magnesium content, mg/kg | ≤ 0.5 |
| Sodium content, mg/kg | ≤ 0.5 |
| The potassium content, mg/kg | ≤ 0.5 |
| Solubility in water: | soluble |

5. Storage

The product has a tendency to decompose under the influence of high or low temperatures, and spontaneously as a result of the passage the time. Storage temperature: the recommended storage temperature, ensuring the stability of the product, from -5°C to 25°C. Store in a cool, dry, well-ventilated place away from heat and ignition sources. Keep only in original container. Due to the hygroscopicity of the product stored in a closed container. Do not store in direct sunlight. Protect from frost.

6. HSE information

The product is not classified. No UN number.

For details, see safety data sheet. A safety data sheet according current regulations is available.

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The information contained in this specification is based on the present state of our knowledge and experience. Taking into account the diversity of factors that may affect the product during its use, these data do not relieve users of responsibility for carrying out their own tests and experiments; not also mean any legally binding assurances, or suitability for a particular purpose. The responsibility lies with the users of our product that all property rights and legal provisions are respected.