



## ARKOS ADBLUE Diesel Exhaust Fluid

**ARKOS ADBLUE** is an high purity 32.5% urea solution. It is directly injected into the exhaust gas where it serves as reducing agent. Thereby, ammonia is released that subsequently reacts with the nitric oxides on the catalyst to elementary nitrogen and water. Both, atmospheric nitrogen and water are natural constituents of the air we breathe. Hence, the amount of nitric oxides in the emission can be reduced by 85%.

### Benefits

- ARKOS ADBLUE should not be considered as a fuel, as it is not injected in the combustion chamber but in the exhaust system: for this reason it is not subject to in taxes.
- ARKOS ADBLUE is part of a future-proof concept for the reduction of exhaust. By emissions environment-friendliness and cost effectiveness, AdBlue meets all EURO 5 and Euro 6 objectives.
- In combination with the SCR-technology, ARKOS ADBLUE optimizes sooty particle emission and fuel consumption. Hence, the amount of sooty particles in the exhaust gas can be reduced by 40%.
- It is not classified as hazardous good, not for human being neither for the environment. It is not inflammable nor explosive.

### Applications

- The solution is sensitive to temperature: below  $-11^{\circ}\text{C}$  it may crystalize, whereas a prolonged storage above  $+30^{\circ}\text{C}$  may cause the formation of ammoniac.
- It shows compatibility problems with some materials, a topic to be considered for handling and storage tanks.

### Performance Specifications

Being an aqueous solution, it is an transparent and inidorous liquid which characteristics are defined at European level by the ISO 22241-1 standard.

### Characteristics (Typical Values)

The analytical methods are defined in ISO 22241 (version of 2008/9)

ARKOS ADBLUE		
TEST PARAMETERS	SPECIFICATION	TYPICAL VALUES
Urea (by weight) %	31.8 – 33.2	33.1
Density(20°C) (kg/m <sup>3</sup> )	1087.0-1093.0	1090.0-
Refractive Index at 20°C	1.3817-1.3843	1.3838
Alkalinity as NH <sub>3</sub>	≤0.2	<0.1

Biuret /%	≤0.3	0.28
INSOLUBLES (mg/kg)	≤20	7
Aldehyde	≤5	4
Phosphate (PO4)	≤0.5	0.2
Aluminium	≤0.5	<0.1
Calcium	≤0.5	0.1
Iron	≤0.5	<0.1
Copper	≤0.2	<0.1
Zinc	≤0.2	<0.1
Chromium	≤0.2	<0.1
Nickel	≤0.2	<0.1
Magnesium	≤0.5	<0.1
Sodium	≤0.5	<0.1
Potassium	≤0.5	<0.1

Note: Always consult your owner's manual to check for recommended viscosity grade and specifications of oil for your particular vehicle/machine/equipment.



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