



# REDOIL



EELQMS  
EUROPEAN ENGINE  
LUBRICANTS QUALITY  
MANAGEMENT SYSTEM  
Data di prima emissione  
19/11/2021

Rev. N°4 del 01/07/2024

## TECHNICAL DATA SHEET

### Ad-Blue®

*Additive for selective catalytic reduction.*

#### SPECIFICS

AUS32 (Aqueous Urea Solution 32.5%) ISO 22241 DIN 70070 AUS32  
VDA certified N° 0004952

#### TECHNICAL DESCRIPTION

Special 32.5% synthetic urea solution, characterised by a high degree of purity, ensures absolute compliance with the quality standards defined by the CEFIC (European Chemical Industry Council) and the International Organization for Standardization (ISO 22241).

These standards are regularly updated to ensure that AdBlue meets the performance requirements set by diesel engine manufacturers in line with technological advancements in SCR systems.

This ultra-pure fluid, certified by the VDA, is recognised for its exceptional purity and ability to completely convert nitrogen oxides (NOx) into non-harmful substances such as nitrogen and water steam.

The use of this product ensures the following:

- The absence of metallic residues
- Excellent system cleanliness
- No crystallisation in the pump area
- No crystals in the tank
- No crystallisation in the injector system



For further details, please contact the technical department.



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Ad-Blue®

TECHNICAL DATA SHEET

Typical Features			
APPEARANCE:AT 20°C liquid Colour: White/clear			
CHARACTERISTICS	ANALYSIS METHOD	UNITS OF MEASURE	STANDARD LIMITS
Title (urea)	ISO 22241-2 Annex C	% weight	31,8 ÷ 33,2
Density at 20°C	ISO 12185	Kg/m³	1.087 ÷ 1.093
Refractive index at 20° C	ISO 22241-2 Annex C		1,3814 ÷ 1,3843
Alcalinity as NH3	ISO 22241-2 Annex D	% weight	< 0,2
Biuret	ISO 22241-2 Annex E	% weight	< 0,3
Aldehyde	ISO 22241-2 Annex F	mg/kg	< 5
Insolubles	ISO 22241-2 Annex G	mg/kg	< 20
Phosphates as PO4	ISO 22241-2 Annex H	mg/kg	< 0,5
Calcium	ISO 22241-2 Annex I	mg/kg	< 0,5
Iron	ISO 22241-2 Annex I	mg/kg	< 0,5
Copper	ISO 22241-2 Annex I	mg/kg	< 0,2
Zinc	ISO 22241-2 Annex I	mg/kg	< 0,2
Chromium	ISO 22241-2 Annex I	mg/kg	< 0,2
Nickel	ISO 22241-2 Annex I	mg/kg	< 0,2
Aluminum	ISO 22241-2 Annex I	mg/kg	< 0,5
Magnesium	ISO 22241-2 Annex I	mg/kg	< 0,5
Sodium	ISO 22241-2 Annex I	mg/kg	< 0,5
Potassium	ISO 22241-2 Annex I	mg/kg	< 0,5
Freezing point		°C	- 11
pH a 25°C		upH	8,0 ÷ 9.5
<p><b>The ISO 22241-1 Method</b>, entitled "Quality Requirements,"</p> <p>This standard outlines the essential quality characteristics that must be met to guarantee the proper functioning of the SCR catalytic system. The standard is updated on a regular basis.</p> <p><b>The ISO 22241-2 Method</b>, entitled "Analysis Method,"</p> <p>This standard outlines the analysis method for determining the parameters set forth in ISO 22241-1. The standard is updated on a regular basis.</p> <p><b>The ISO 22241-3 Method</b>, entitled "Handling, Transport, and Storage,"</p> <p>This standard provides guidance on the correct daily use of AdBlue® and reflects the concepts set out in the guideline document issued by CEFIC, as referenced in DIN V70070. The standard is updated on a regular basis.</p> <p><b>The ISO 22241-4 Method</b>, entitled "Filling Interface,"</p> <p>This standard outlines the characteristics of the components used in the filling process.</p>			

## Ad-Blue®

Storage temperature (°C )	minimum storage life (months)
<10	36
<25	18
<30	12
<35	6
>35	Singificant loss of shelf life

### MODE OF USE

Please follow the instructions indicated in the use and maintenance booklet provided by the manufacturer. The product should be stored in a cool, dry place, away from direct sunlight and at temperatures not exceeding 30°C.

### SAFETY AND ENVIRONMENT

Please, use in accordance with the recommendations provided in the MSDS  
Additional information on MSDS.