

AdBlue / DEF -- Diesel Exhaust Fluid (AUS 32)

1. PRODUCT DESCRIPTION

AISO AdBlue is a high-purity Diesel Exhaust Fluid (DEF), also known as AUS 32 (Aqueous Urea Solution 32.5%), manufactured to the requirements of ISO 22241. It is used in Selective Catalytic Reduction (SCR) systems fitted to diesel-powered vehicles and equipment to reduce nitrogen oxide (NOx) emissions by up to 90%, enabling compliance with Euro 5, Euro 6, EPA Tier 4, and equivalent emissions standards worldwide.

2. KEY FEATURES

- ISO 22241 compliant -- certified to all parts (quality, handling, testing, logistics)
- High purity urea solution -- precisely 32.5% urea concentration +/- 0.8%
- Protects SCR catalyst, AdBlue injectors, and dosing system components
- Reduces NOx emissions by up to 90% in SCR-equipped diesel vehicles
- Free from harmful impurities -- meets strict limits for metals, ions, and insolubles
- Compatible with all diesel vehicles fitted with SCR / AdBlue systems
- Non-toxic, non-flammable, and biodegradable
- Available in retail and bulk packaging for fleet and distributor supply

3. TYPICAL PROPERTIES

Property	Typical Value
Urea concentration (wt%)	32.5 +/- 0.8
Density @ 20 degC (kg/L)	1.087-1.093
Refractive index @ 20 degC	1.3814-1.3843
Freezing point (degC)	-11.5
Boiling point @ 1 atm (degC)	~107
pH @ 20 degC	9.0-9.5
Alkalinity (as NH3, mg/kg)	< 0.2
Biuret content (wt%)	< 0.3
Insolubles (mg/kg)	< 20
Colour / Appearance	Clear, colourless liquid

4. APPLICATIONS

- Passenger cars and light commercial vehicles with SCR emission systems
- Heavy duty trucks and buses compliant with Euro 5/6 and EPA Tier 4
- Agricultural and construction machinery with SCR systems
- Marine and rail diesel engines equipped with SCR technology
- Stationary diesel generators and power plant SCR systems

5. PACKAGING

- 5 Litre HDPE container (retail)
- 10 Litre HDPE container (retail / workshop)
- 20 Litre HDPE container (workshop)
- 200 Litre HDPE drum (depot / fleet)
- 1000 Litre IBC (bulk -- fleet operators)
- Bulk tanker delivery available (minimum order quantities apply)

6. STORAGE & HANDLING

Store in original HDPE containers in a cool, shaded location. Avoid temperatures above 35 degC for extended periods (degrades product quality). Protect from contamination -- do not introduce oils, fuels, or metal objects. Use dedicated AdBlue dispensing equipment only. Shelf life: 18 months from production date when stored <= 25 degC. Dispose of unused product via approved waste stream.

IMPORTANT: Never add AdBlue to a fuel tank. AdBlue is NOT a fuel additive. Use only in the dedicated AdBlue / SCR filler point on your vehicle. Contamination of fuel with AdBlue may cause severe engine damage.

DISCLAIMER

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