



Lubrex AdBlue Diesel Exhaust Fluid

PRODUCT DESCRIPTION:

Lubrex AdBlue is a clear, non-toxic eco-friendly liquid crafted from high-purity urea and demineralized water, designed to enhance modern diesel engines' emission systems. It effortlessly converts harmful nitrogen oxides into safe nitrogen and water vapor, ensuring compliance with stringent environmental standards while maintaining peak engine performance.

APPLICATION:

- **Selective Catalytic Reduction (SCR) Systems:** Injected into the exhaust stream of modern diesel engines to convert NO into harmless nitrogen and water vapour.
- **Heavy-Duty Trucks & Buses:** Ensures compliance with Euro VI, EPA 10, and other stringent emissions regulations.
- **Off-Road Machinery:** Suitable for agricultural, construction, and mining equipment fitted with SCR technology.
- **Stationary Diesel Generators:** Reduces NO emissions in power-generation applications.

FEATURES & BENEFITS:

- **High Urea Concentration (32.5 %):** Ensures optimal NO reduction efficiency in SCR systems, allowing engines to maintain peak combustion settings for improved fuel economy and lower overall operating costs
- Protects SCR catalysts from fouling and blockage, reducing maintenance intervals and extending catalyst life for greater engine reliability.
- Strict Trace-Metal Control and ultra-low impurities
- (Minimizes catalyst poisoning and corrosion, ensuring consistent emissions performance over the full-service interval and lowering lifetime SCR system costs.
- Guarantees precise dosing accuracy in onboard injection systems, reducing risk of under- or overdosing and preventing unexpected downtime.
- **ISO 22241 Quality Assurance**
- Meets rigorous international standards for automotive-grade urea solution, giving end users confidence in regulatory compliance (Euro VI, EPA 10, etc.) and demonstrating commitment to environmental stewardship

Lubrex AdBlue® (32.5% AQUEOUS UREA SOLUTION):

Lubrex AdBlue is a high-purity 32.5% aqueous urea solution designed for use in diesel engines equipped with Selective Catalytic Reduction (SCR) systems. It helps reduce nitrogen oxide (NOx) emissions, complying with Euro IV, V, and VI standards. The product fully meets ISO 22241-1:2019(E) and ISO 22241-2:2019(E) requirements.

COMPLIANCE AND STANDARDS:

Manufactured according to ISO 22241-1:2019(E) / ISO 22241-2:2019(E). Suitable for all vehicles and equipment using SCR technology. Non-toxic, non-flammable, and environmentally safe when used as directed.

TYPICAL PHYSICAL PROPERTIES:

PROPERTY	VALUE
Appearance	Clear, colorless liquid
Odor	No odor or slight ammonia odor
Freezing / Melting Point	≈ -11°C
Density @ 20°C	1.087 – 1.093 g/cm ³
Refractive Index @ 20°C	1.3814 – 1.3843
Viscosity @ 25°C	1.4 mPa·s
Surface Tension	65 mN/m
Thermal Conductivity @ 25°C	0.57 W/m·K
Specific Heat	≈ 3.4 kJ/kg·K
Solubility in Water	Unlimited
Total Nitrogen Content	15.0% (w/w)



TYPICAL CHEMICAL COMPOSITION:

PARAMETERS	TEST METHOD	UNIT	Lubrex AdBlue
Urea Content	ISO 22241-2 Ann. C	% (m/m)	31.8 – 33.2
Refractive Index @ 20°C	ISO 22241-2 Ann. E	–	1.3814 – 1.3843
Alkalinity as NH ₃	ISO 22241-2 Ann. D	% (m/m)	< 0.2
Biuret	ISO 22241-2 Ann. E	% (m/m)	< 0.3
Aldehydes	ISO 22241-2 Ann. F	mg/kg	< 5
Insolubles	ISO 22241-2 Ann. G	mg/kg	< 20
Phosphate (PO ₄)	ISO 22241-2 Ann. H	mg/kg	< 0.5
Calcium (Ca)	ISO 22241-2 Ann. I	mg/kg	< 0.5
Iron (Fe)	ISO 22241-2 Ann. I	mg/kg	< 0.5
Copper (Cu)	ISO 22241-2 Ann. I	mg/kg	< 0.2
Zinc (Zn)	ISO 22241-2 Ann. I	mg/kg	< 0.2
Chromium (Cr)	ISO 22241-2 Ann. I	mg/kg	< 0.2
Nickel (Ni)	ISO 22241-2 Ann. I	mg/kg	< 0.2
Aluminium (Al)	ISO 22241-2 Ann. I	mg/kg	< 0.5
Magnesium (Mg)	ISO 22241-2 Ann. I	mg/kg	< 0.5
Sodium (Na)	ISO 22241-2 Ann. I	mg/kg	< 0.5
Potassium (K)	ISO 22241-2 Ann. I	mg/kg	< 0.5

DISCLAIMER: The test data provided above is not a specification but is indicative and may vary within permissible production tolerances. Lubrex reserves the right to modify this test data. Updated information will supersede previous versions, so please refer to the latest version of this Technical Data Sheet (TDS).

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website www.lubrex.net

HEALTH & SAFETY:

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet www.lubrex.net

PROTECT THE ENVIRONMENT:

Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.

STORAGE:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

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