

TECHNICAL DATA SHEET

AdBlue® (Diesel Exhaust Fluid, DEF)

BLUETECH ENVIRONMENTAL TECHNOLOGY SDN BHD

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TECHNICAL DATA SHEET (TDS)

Product Name: AdBlue® / Diesel Exhaust Fluid (DEF) / AUS 32

1. PRODUCT DESCRIPTION

AdBlue® is a high-purity aqueous urea solution (32.5% w/w) used in Selective Catalytic Reduction (SCR) systems of diesel engines to reduce nitrogen oxides (NOx) emissions. It is non-toxic, colorless, and safe to handle when used properly.

2. COMPOSITION

- High-purity urea: 32.5% ± 0.7%
- Deionized water: Balance

3. TYPICAL PROPERTIES (ISO 22241 STANDARD)

Property	Unit	Specification (ISO 22241)
Urea content	% (m/m)	31.8 – 33.2
Density (20°C)	g/cm ³	1.087 – 1.093
Refractive index	—	1.3814 – 1.3843
pH (20°C)	—	9.0 – 10.0
Alkalinity (as NH ₃)	% (m/m)	≤ 0.2
Biuret	% (m/m)	≤ 0.3
Insoluble matter	mg/kg	≤ 20
Aldehydes	mg/kg	≤ 5
Phosphate (PO ₄)	mg/kg	≤ 0.5
Calcium, Mg, Na, K	mg/kg each	≤ 0.5
Iron, Copper, Zinc	mg/kg each	≤ 0.2

4. APPEARANCE

Clear, colorless liquid, free from suspended solids.

5. APPLICATION

Designed for use in SCR-equipped diesel engines.
Reduces NOx emissions and helps meet Euro IV, V, VI and equivalent emission standards.

6. STORAGE & HANDLING

- Storage temperature: -11°C to 30°C
- Protect from direct sunlight and contamination.
- Use only dedicated containers and equipment made from HDPE, stainless steel 304/316L.
- Avoid contact with copper, zinc, aluminum, or mild steel.

7. PACKAGING OPTIONS

- 10L / 20L cans
- 200L drums
- 1000L IBC tanks
- Bulk delivery

8. SAFETY INFORMATION

- Non-toxic, non-flammable, and non-explosive.
- In case of skin or eye contact, rinse with plenty of clean water.
- Not suitable for human or animal consumption