

Technical Data Sheet / Quality Statement

Trade name: AdBlue®

Appearance at 20 °C: clear liquid

Application: additive for SCR technology used to reduce NOx emissions from diesel engine exhaust gases

Chemical description: solution of urea in demineralised water

Physical and chemical parameters – specification

according to **ISO 22241-1:2019**: Diesel engines – NOx reduction agent AUS 32 – Part 1: Quality requirements

Parameter	Unit	Limits	Test Method
urea content	wt. %	31.8 – 33.2	ISO 22241-2 Annex B, C
density at 20 °C	kg/m ³	1087.0 – 1093.0	ISO 3675, ISO 12185
refractive index at 20 °C	-	1.3814 – 1.3843	ISO 22241-2 Annex C
alkalinity as NH ₃	wt. %	0.2 max.	ISO 22241-2 Annex D
biuret	wt. %	0.3 max.	ISO 22241-2 Annex E
aldehydes	mg/kg	5 max.	ISO 22241-2 Annex F
insoluble matter	mg/kg	20 max.	ISO 22241-2 Annex G
phosphates (PO ₄)	mg/kg	0.5 max.	ISO 22241-2 Annex H
calcium	mg/kg	0.5 max.	ISO 22241-2 Annex I
iron	mg/kg	0.5 max.	ISO 22241-2 Annex I
copper	mg/kg	0.2 max.	ISO 22241-2 Annex I
zinc	mg/kg	0.2 max.	ISO 22241-2 Annex I
chromium	mg/kg	0.2 max.	ISO 22241-2 Annex I
nickel	mg/kg	0.2 max.	ISO 22241-2 Annex I
aluminium	mg/kg	0.5 max.	ISO 22241-2 Annex I
magnesium	mg/kg	0.5 max.	ISO 22241-2 Annex I
sodium	mg/kg	0.5 max.	ISO 22241-2 Annex I
potassium	mg/kg	0.5 max.	ISO 22241-2 Annex I
identity	matches the reference sample		ISO 22241-2 Annex J

We hereby declare that the product meets the quality requirements of ISO 22241-1:2019.

Recommended storage: Store at temperatures between -5 and 25 °C in tightly closed original containers. At temperatures of -11 °C and below, the product freezes. After thawing, the product may be used without concern. At temperatures above 40 °C, thermal decomposition of the product and release of ammonia may occur, which may lead to changes in the product quality parameters.

Recommended shelf life: 12 months from the date of manufacture, provided that the recommended storage conditions are observed.

Date of last revision: 24/01/2026