



TECHNICAL DATA SHEET (TDS)

AdBlue®

AdBlue® Altra™ Pure
AUS 32 Aqueous Urea Solution 32.5%
NOx reduction agent AUS 32
Diesel Exhaust Fluid (DEF)

Description

Very pure NOx-reduction agent for Diesel engines equipped with SCR catalysts.

Chemical Properties

AdBlue® has a weak alkaline reaction.
The urea solution decomposes slowly at room temperature, generating ammonia and carbon dioxide.
The rate of this reaction increases if the solution is heated.
Above approx. 70 °C biuret is formed additionally at a significant rate.

Shelf life

At product temperatures between -11.5 and 25 °C.
AdBlue® has a shelf life of 12 months after production (maximum product temperature 30 °C, average product temperature 25 °C).

Safety

AdBlue is a non-hazardous substance.

Handling

When using this product, the information and advice given in our Safety Data Sheet (SDS) should be observed. Due attention should also be given to the precautions necessary for handling chemicals.

Storage and Transportation

AdBlue® is not a dangerous substance for transportation.
Owing to its chemical nature, however, it must be transported and stored separately from nitrites.
Transportation should be made in insulated tanks or on plastic tank pallets (IBC).

Specifications

AdBlue® fulfils the quality requirements as per the international standard ISO 22241-1:2019.

Test	Unit	Limits (Min.)	Limits (Max.)	Test Method
Alkalinity as NH3	% m/m	—	0.2	ISO 22241-2 Ann. D
Biuret	% m/m	—	0.3	ISO 22241-2 Ann. E
Aldehydes as Formaldehyde	mg/kg	—	5	ISO 22241-2 Ann. F
Insoluble Matter	mg/kg	—	20	ISO 22241-2 Ann. G
Urea Content by Refractive Index	% m/m	31.8	33.2	ISO 22241-2 Ann. C
Refractive Index at 20°C	—	1.3814	1.3843	ISO 22241-2 Ann. C
Density at 20°C	kg/m ³	1087	1093	ISO 12185
* Phosphate (PO ₄)	mg/kg	—	0.5	ISO 22241-2 Ann. H
Aluminium	mg/kg	—	0.5	ISO 22241-2 Ann. I
Calcium	mg/kg	—	0.5	ISO 22241-2 Ann. I
Chromium	mg/kg	—	0.2	ISO 22241-2 Ann. I
Copper	mg/kg	—	0.2	ISO 22241-2 Ann. I
Iron	mg/kg	—	0.5	ISO 22241-2 Ann. I
Potassium	mg/kg	—	0.5	ISO 22241-2 Ann. I
Magnesium	mg/kg	—	0.5	ISO 22241-2 Ann. I
Nickel	mg/kg	—	0.2	ISO 22241-2 Ann. I
Sodium	mg/kg	—	0.5	ISO 22241-2 Ann. I
Zinc	mg/kg	—	0.2	ISO 22241-2 Ann. I