

AdBlue®

Composition, properties, appearance:

AdBlue® is a 32.5 % aqueous urea solution produced from technically pure urea $\text{CO}(\text{NH}_2)_2$ and demineralized water. It is a colourless, pure liquid with a slight ammonia smell. The solution has no toxic properties, it does not affect the human organism aggressively. The solution is non-flammable and not classified as dangerous for transport.

It is known under the marking AUS 32 (english abbreviation for Aqueous Urea Solution).

Technical specification:

density at 20 °C	1 087 – 1 093 kg/m ³
initial crystallization temperature	-11°C

Quality requirements are in terms of the norm DIN 70070.

Application:

AdBlue® is a NOx-gases-reduction agent, which is necessary for the usage of selective catalytic reduction catalysts (SCR) in motor vehicles with a diesel engine.

Consumption:

The AdBlue® consumption is cca 4 – 6 % of the diesel oil consumption.

Package, transport, storage:

AdBlue® is delivered according to customer requirements - in tank trucks, in 1 000 l palletized containers (IBC containers) and in 10 l canisters. Materials suitable for tanks, as well as for aggregates and other equipment, which may get into contact with AdBlue®, are steel alloy, plastics recommended in the Quality assurance guideline for AUS 32 (QAGD AUS 32, CEFIC), as well as plastic coatings in metal tanks. Unalloyed steels, galvanized steels, copper, aluminium and alloys containing copper and aluminium must not be used.

The solution is dispatched by the producer with a temperature of max. 30 °C. To prevent hydrolysis in the urea solution, storage under normal conditions, optimally up to 25 °C, in closed containers, protected from solar radiation is recommended. To prevent crystallization, the storage temperature must not be lower than - 11 °C.

With respect to the high solution purity requirements it is necessary to observe the Quality assurance guideline for AUS 32. It is recommended to use in the whole supply chain for storage, handling, transport and distribution only equipment and instruments for AUS 32, which must be before the first use thoroughly cleaned and flushed with demineralized water.

Store separately from food-stuffs, drinks and animal feed-stuffs.

Guarantee period: 12 months from the date of production if the storage conditions are observed.

AdBlue® registered trademark of the Verband der Automobilindustrie e.V. (VDA)

The given data are only of an informative character and are not comprehensive. Further information can be obtained:

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Producer:

Duslo, a. s.
Administratívna budova ev. č. 1236
927 03 Šaľa
Slovak republic

Sales contact:

Duslo, a. s.
Administratívna budova ev. č. 1236
927 03 Šaľa
Slovak republic

Tel.: +421 31 775 4468
Fax: +421 31 775 4001
E-mail: adblue@duslo.sk
Internet: <http://www.duslo.sk/>