



# PRODUCT CATALOGUE



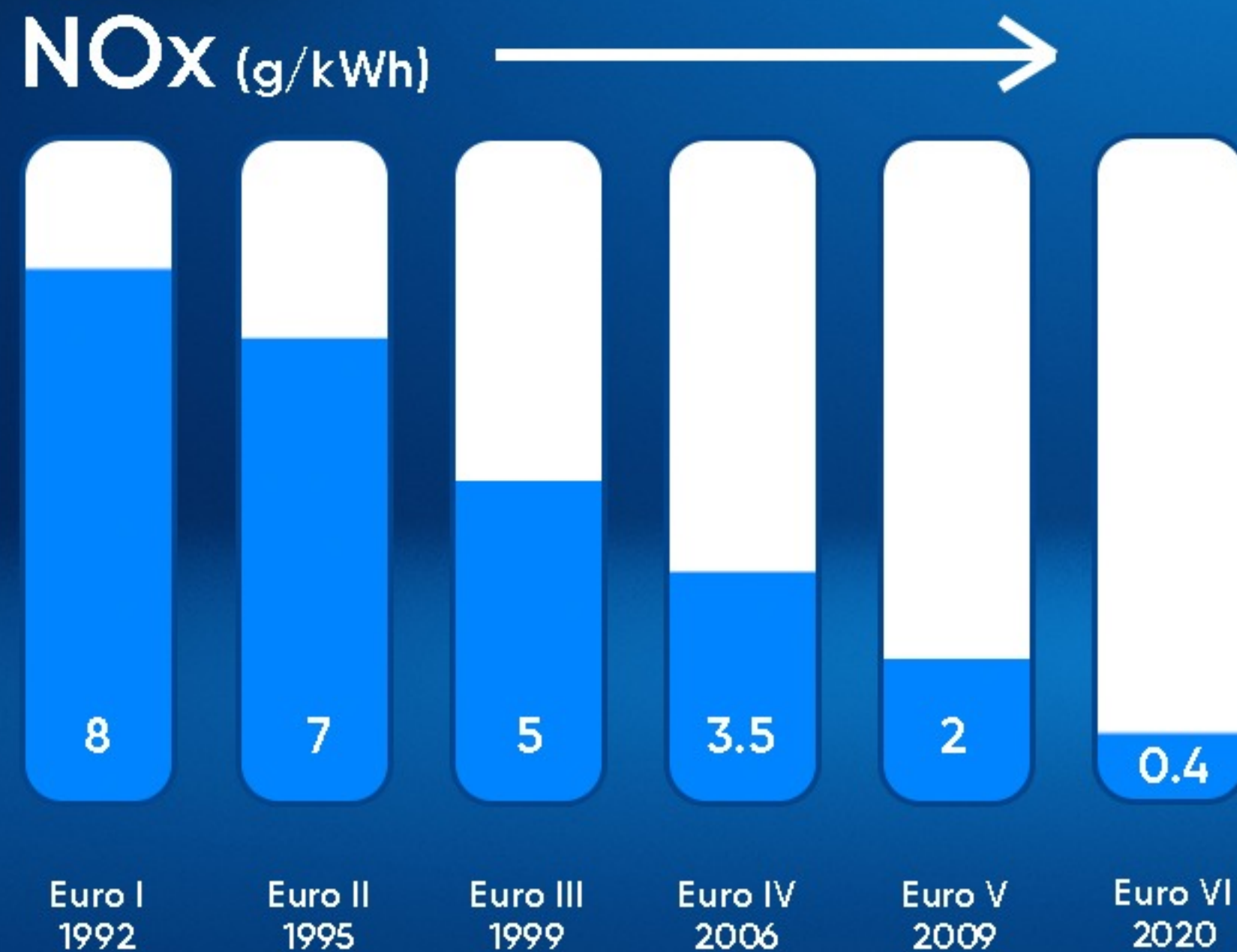


## The Future of The Car Industry



Vital AdBlue, is the perfect environmental solution for the whole range of diesel vehicles whose harmful emissions must be reduced. It is a very high-quality product that is recommended by the main manufacturers on the market for both passenger and industrial vehicles.

# Compliance with the Euro standard



In 2005, the Euro 4 standard came into force in Europe for all vehicles over 3.5 t (lorries, buses, etc.) that required emissions to be reduced greatly with respect to the Euro 3 standard. This standard has subsequently been updated until reaching the current Euro 6 standard, which all vehicles, including passenger, heavy goods, agricultural and industrial vehicles, must comply with.

The Euro standards defined by the European Parliament have been limiting polluting emissions of new industrial vehicles since 1992. The current Euro 6 standard seeks to reduce NOx gases, one of the causes of the greenhouse effect, by 20 per cent.

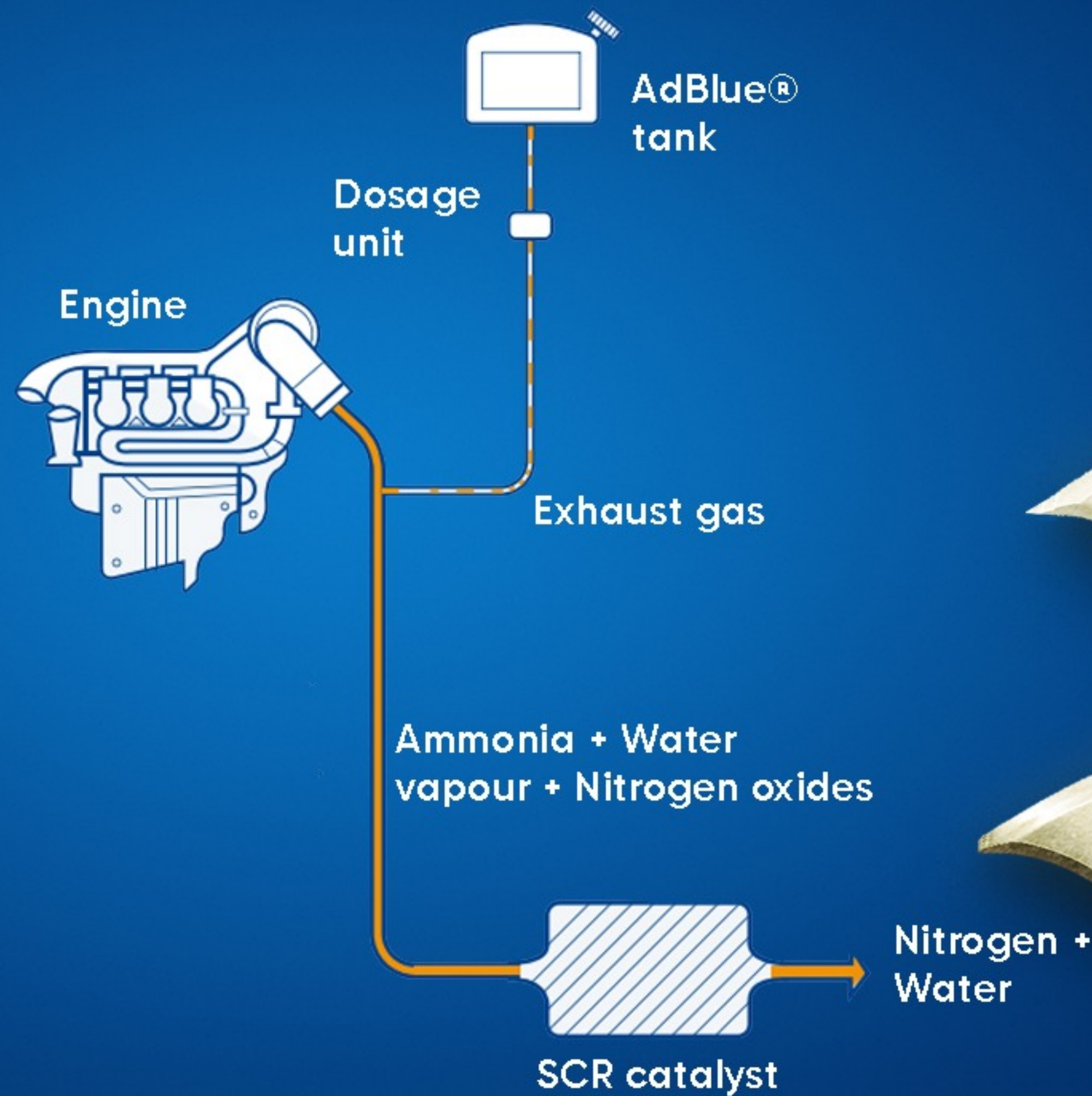
Most car manufacturers have chosen to use AdBlue® combined with high performance catalytic systems as the best solution to comply with the Euro 6 requirements

# SCR Technology

The aim of SCR technology is to reduce the emissions that are generated during engine combustion through a catalytic converter that forms part of the vehicle's exhaust system.

SCR technology required a constant supply of AdBlue®, a high-quality 32.5% urea solution, as a reducing agent. AdBlue® is transported in the vehicle in a separate tank since it is not a fuel additive. Similarly to diesel, AdBlue® can be refilled in service stations (whether they are public or belong to the clients).

AdBlue® consumption is estimated to account for 5% of the total consumption of diesel.



# Leading AdBlue® manufacturer

We are the only integrated manufacturer of AdBlue® in Turkey, and this is the only technology capable of guaranteeing a product without any external or polluting elements. Furthermore, we are the largest manufacturer of AdBlue® in Turkey and one of the largest in the CIS.

## Leader in service

As the largest AdBlue® producer in Turkey and due to the fact that it has the most extensive distribution network in the market, Vital guarantees the highest quality and consistency in deliveries. It is the only company capable of guaranteeing bulk deliveries in less than 24 hours anywhere in Turkey. Moreover, the strategic location of our production and distribution centres enables us to supply the markets and meet the demands of our clients with full guarantees.



# What is AdBlue? 32.5% Urea Solution

AdBlue® is a high-purity, clear, colourless liquid whose chemical name is Aqueous Urea Solution (32.5% by weight), and its trade name is automotive-grade urea solution.

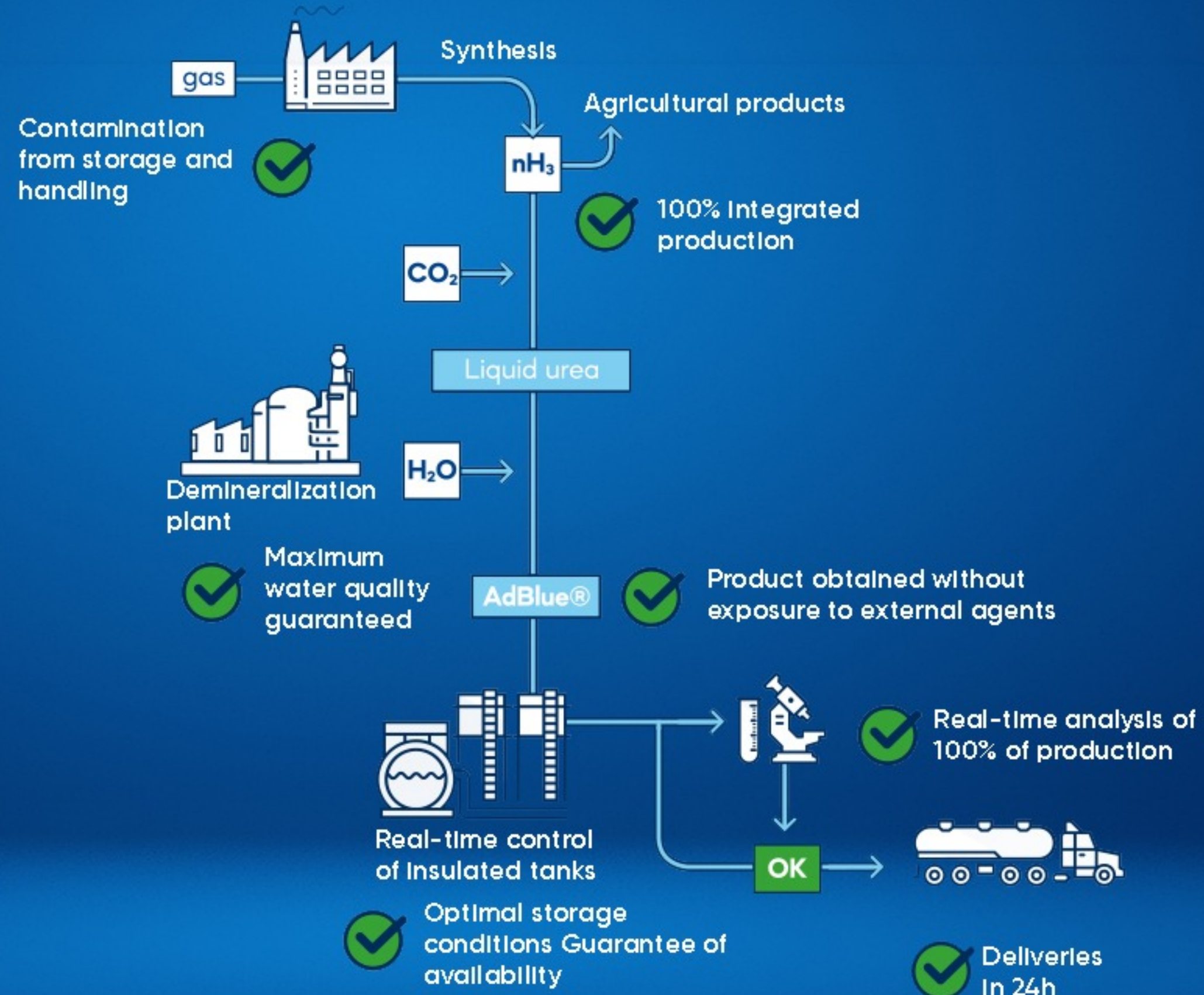
## *Form of application*

SCR technology requires a constant supply of AdBlue®, a high-quality 32.5% urea solution, as a reducing agent.

AdBlue® is classified under the minimum risk category of transportable fluids. It is not a fuel, nor a fuel additive; it is transported in the vehicle in a separate tank. Similarly to diesel, AdBlue® may be refilled at service stations (whether they are public or belong to the client). If AdBlue® spills onto hands, they simply need to be washed with water.



# Our Manufacturing Process



- ✓ Process and facilities audited by the VDA
- ✓ ISO 9001, ISO 14001 certified facilities

# Recommendations

To be sure that the quality of AdBlue® is right, you should follow these recommendations:

## VDA

Without an official quality management certification there is no guarantee that the producer will follow the production protocols of the VDA and IONet license has been obtained.



Always request ISO 9001 from the production centre where your AdBlue® comes from.



Always ask for the certificate of analysis of the specific batch of product you received.

# Risks

The use of AdBlue® of dubious quality carries the following risks:



Long-term damage to the catalyst and injectors



Non-compliance with the Environmental Law 2007/46/EC.



Financial penalties and paralysis of the vehicle.

# Vital AdBlue



## Technical Specifications

Urea (%)	31.8 - 33.2
Alkalinity as NH3 (%)	Max. 0.2
Biuret (%)	Max. 0.3
Insolubles (mg/kg)	Max. 20
Aldehyde (mg/kg)	Max. 5
Phosphate (PO4)	Max. 0.5
Aluminium (mg/kg)	Max. 0.5
Calcium (mg/kg)	Max. 0.5
Iron (mg/kg)	Max. 0.5
Zinc (mg/kg)	Max. 0.2
Copper (mg/kg)	Max. 0.2
Nickel (mg/kg)	Max. 0.2
Magnesium (mg/kg)	Max. 0.5
Sodium (mg/kg)	Max. 0.5
Chromium (mg/kg)	Max. 0.2
Potassium (mg/kg)	Max. 0.5
Density at 20°C (liquid)(kg/m3)	1,087 - 1,093
Refractive index at 20°C	1.3814 - 1.3843

# Vital AdBlue



5L  
10L



210L



18L  
30L



1000L  
IBC



# Vital Antifreeze



Antifreeze is a chemical substance that is added to the coolant in a vehicle's engine to lower its freezing point and increase its boiling point. It prevents the engine coolant from freezing during cold temperatures and boiling during hot temperatures, which could cause engine damage. Antifreeze typically contains ethylene glycol or propylene glycol as the main ingredient, as well as additives such as corrosion inhibitors, pH balancers, and lubricants. It is important to use the correct type of antifreeze recommended by the manufacturer for your vehicle, as using the wrong type can lead to engine damage and even failure. It is also important to handle antifreeze with care, as it is toxic to humans and animals if ingested.

# Vital Anti-Freeze




Vital Antifreeze  
-37C° -46C° -56C°  
1L - 3L - 5L



Vital Pure  
Organic Antifreeze  
1L - 3L - 5L



# Vital AUS40

An aerial view of a large container ship sailing on the open ocean. The deck is densely packed with stacks of colorful shipping containers in various colors including red, blue, yellow, green, and white. The ship is moving towards the right side of the frame.

AUS 40, also known as AdBlue, is a solution made from a mixture of urea and deionized water that is used to reduce the amount of harmful nitrogen oxide emissions from diesel engines. It is injected into the exhaust system of diesel vehicles and reacts with the exhaust gases to convert the nitrogen oxides into harmless nitrogen and water vapor. AUS 40 is required by many modern diesel vehicles to meet emissions standards and is becoming increasingly common in heavy-duty vehicles such as trucks, buses, and construction equipment. It is important to use high-quality AUS 40 to ensure the proper functioning of the vehicle's emissions control system and to minimize the amount of harmful pollutants released into the environment. AUS 40 is available at many fuel stations and can be easily refilled using a separate tank on the vehicle.

# Vital AUS40



1000LT (IBC) – TANKER



# Vital Windscreen Wash



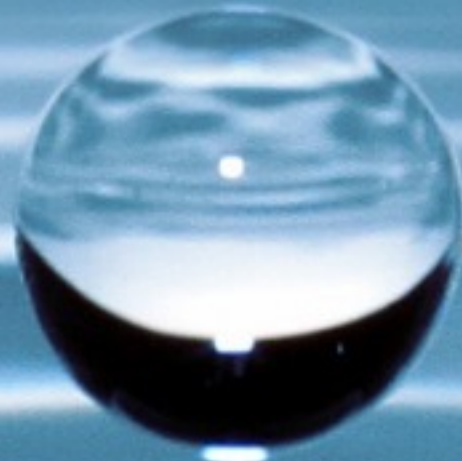
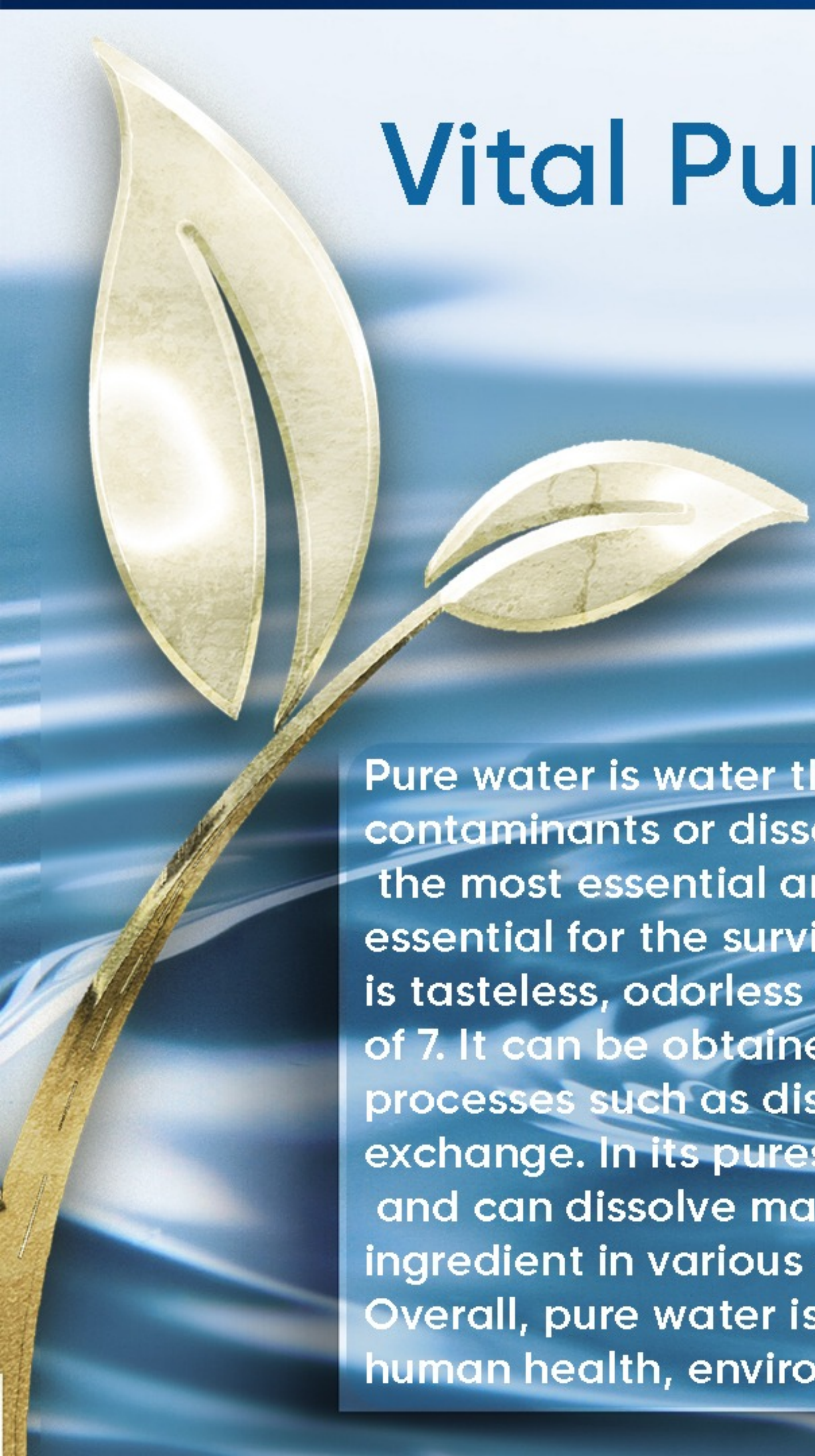
Windscreen wash, also known as windshield washer fluid, is a specially formulated liquid used to clean the windscreen or windshield of a vehicle. The fluid is designed to remove dirt, grime, bugs, and other debris that accumulates on the windscreen while driving. The solution typically contains a mix of water, detergent, and alcohol, and sometimes includes additives like antifreeze or de-icer to help prevent the fluid from freezing in cold weather. Windscreen wash can be applied to the windscreen using wiper blades or by spraying it directly onto the glass from a nozzle located on the vehicle's hood or wiper arms. Regularly cleaning the windscreen with windscreen wash is an essential maintenance task for vehicle owners, as it helps to ensure clear visibility and safe driving conditions.

# Vital Windscreen Wash



1-2.5L-5L

# Vital Pure Water



Pure water is water that is free from any impurities, contaminants or dissolved solids. It is considered as the most essential and basic form of water and is essential for the survival of all living beings. Pure water is tasteless, odorless and colorless and has a neutral pH of 7. It can be obtained through various purification processes such as distillation, reverse osmosis, or ion exchange. In its purest form, water is an excellent solvent and can dissolve many substances, making it an important ingredient in various chemical and industrial processes. Overall, pure water is a vital resource that is essential for human health, environmental sustainability, and economic development.

# Vital Pure Water



1L-2.5L-10L-18L-1000L



Şenol Güneş Blv. Tatlısu Mah.Zülfikar Sk.  
2/19 Ümraniye-İstanbul

+90 216 232 36 25

[www.vitaladblue.com](http://www.vitaladblue.com)

[info@vitaladblue.com](mailto:info@vitaladblue.com)

