

DENOF-RB BLUE

DIESEL EXHAUST FLUID

A product manufactured by
AQUA CHEMICALS

CERTIFIED WATER TECHNOLOGIST

Since 1997 in the field of pollution control and water treatment technology

- ➔ **What is DENOF-RB BLUE:** A composition of urea and high grade di-ionized water, manufacture under strict guidelines and standard according to ISO -22241.
- ➔ **How DENOF-RB BLUE works:** Vehicle based on SCR (Selective Catalytic Reduction) next to the Diesel Particulate Filter (DPF) with regeneration process by the late fuel injection to control exhaust temperature to burn of soot.
- ➔ **Point of application:** DENOF-RB BLUE works in all diesel vehicles and other equipments such as diesel trucks, Marine ships, boilers with SCR System.
- ➔ **Where to add:** DENOF-RB BLUE should be added to DEF tank.

➔ FEATURES: DENOF-RB BLUE

- 😊 Is a environmental friendly
- 😊 Minimizes NO_x pollution
- 😊 Low down the particulate emission

🧑‍🚒 Very economical in terms of price and consumption

🚫 **CAUTION: DENOF-RB BLUE** should not be added to Diesel tank. And if it is added by mistake, contact to supplier or service station for necessary action. **Handling precaution:** It May be skin and eye irritant. If comes in contact wash with plenty of water thoroughly.



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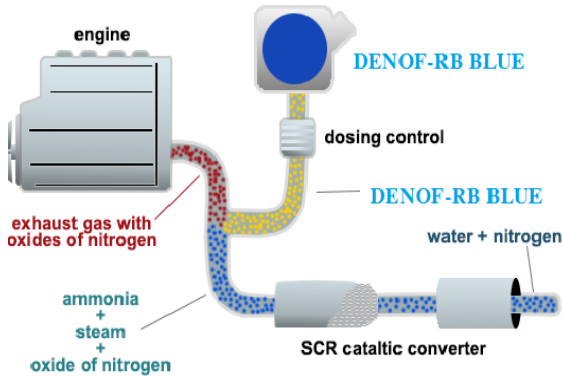
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TECHNICAL DETAILS OF DENOF-RB BLUE Diesel Exhaust Fluid

VERY IMPORTANT INFORMATION ABOUT DENOF-RB BLUE



DENOF-RB BLUE is not a fuel or fuel additive. It has its own tank shown as below. It works as part of SCR (Selective Catalytic Reduction) system.

DENOF-RB BLUE is the most efficient way to keep **NOx** in fuel emission to minimum level. SCR

Technology is a directive for diesel vehicles first introduced by European Union (EU) which is now essential legislation for diesel fuel trucks and other diesel fuel based vehicles. Directive defines acceptable level of exhaustive emission for new vehicles produced.

What is DENOF-RB BLUE: is a colorless liquid that is a mixture of high-purity urea (32.5%) and de-ionized water (67.5%). The solution is an essential component of selective catalytic reduction (SCR) technology, which is one of the most effective systems for reducing the nitrogen oxide (**NOx**) levels in the exhaust fumes that are outputted by diesel engines. **NOx** is one of the most harmful pollutants emitted by engines, as it reacts with other gases in the atmosphere to form small particles and ozone, both of which can damage sensitive lung tissue in humans and animals.

How DENOF-RB BLUE works; when the fuel is burned by the engine, **DENOF-RB-BLUE** is injected into the SCR catalyst converter in order to convert the **NOx** into a less harmful mixture of nitrogen and water vapor. The solution is stored in a separate tank (separate from the diesel), before being added to outgoing exhaust gas by a dosing control system that supplies enough **DENOF-RB BLUE** to make up 2–6% of the total fuel consumption. In the SCR catalytic converter, the urea present, becomes ammonia when heated, reacting with the **NOx** in the emissions to convert the pollutants into nitrogen, water, and a small amount of carbon dioxide —elements that are already natural to the air that we breathe.

DENOF-RB BLUE: Is recommended for all diesel truck/heavy vehicles following SCR technology BS4/BS6 norms. (NCR already declare the BS6 for diesel vehicles).

Non road mobile machineries: like hedge trimmers/chainsaws, generators, bulldozers, Construction machinery, industrial trucks, forklifts, mobile cranes, agriculture trucks. Marine ships and diesel boats.



Which vehicles should use DENOF RB BLUE: all manufacturers producing vehicles in the BS4/BS6/EU norms have to ensure that their vehicles are tested to meet these acceptable levels. Due to its incredible efficiency, the use of an SCR system with **DENOF-RB BLUE** is the preferred method for reaching these targets.

The simplest way to check whether you need **DENOF-RB BLUE** is to have a look under your fuel cap cover — if there is a secondary, smaller cap that is **blue** adjacent to your main fuel cap, then you will require it. The secondary cap is often labeled with the product name to avoid confusion. Your owner's manual should also detail if there is a SCR system in your vehicle or not and what exactly needs to be done to

maintain it.

How long does a tank of **DENOF-RB BLUE** long last: It depends upon so many factors such as what type of vehicle you are driving, you're driving style, the length and type of journey, road and weather conditions, and how heavy the load is you are moving. Your **DENOF-RB BLUE** should last for at least a few refills of diesel, as only a small amount is injected into your exhaust system compared to the amount of fuel used. After a period of typical use, you should be able to anticipate when you might be in need of a top-up.

It is also worth bearing in mind that if you are caught in a pinch with no **DENOF-RB BLUE**, most vehicles require a minimum amount to be refilled before the engine will function again — consult your owner's manual or check with your manufacturer for more information.

How much **DENOF-RB BLUE** needed for vehicles?

Following factors to be considered to estimate the amount of **DENOF-RB BLUE** is needed to fleet of vehicle:

- how far each vehicle will travel,
- the fuel economy for each vehicle,
- how many vehicles are in your fleet, and
- your vehicles '**DENOF-RB BLUE**' consumption rate.

DENOF-RB BLUE consumption is usually between 2–6% for most vehicles, with diesel vans and lorries tending to inhabit the upper half of this range at 4–6%. Another way to picture this is that for every 100 gallons of fuel burned, 4–6 gallons of **DENOF-RB BLUE** will be used to reduce **NOx** levels in the emissions. It is possible to work out approximately how much **DENOF-RB BLUE** you will need to order for your fleet using a calculation similar to the one in the typical examples below.

Once you have the information about your vehicles and operations at hand, you should be able to work out your own estimation.

What will happen when **DENOF-RB BLUE** runs out?

If the supply of **DENOF-RB BLUE** runs out, your SCR system will not be able to function, which will lead to limited vehicle performance or your engine not running at all? As your vehicle has been manufactured to meet BS 6/Euro 6 or VI standards, it is required by law to meet its acceptable emissions level at all times, even when you're your light vehicle such as diesel car has run out of **DENOF-RB BLUE**. This means that when your SCR system is not able to perform its task, it will prevent you from burning more fuel either by keeping your engine below the threshold or stopping it altogether. This failsafe is in place to protect both the driver and the environment.

How to check **DENOF-RB BLUE** level in my vehicle:

Thankfully, most new vehicles will have a driver information system on board, which notifies you if there is a particular error or if you are running out of oils or fluids, including **DENOF-RB BLUE**. This system will usually give you a series of warnings as it becomes depleted, so it is important to get a refill as soon as you can. If you need to check the level of your **DENOF-RB BLUE** manually, check the owner's documentation for guidance or contact the manufacturer for further advice.

Storage conditions required for **DENOF-RB BLUE**

DO

- Always pour **DENOF-RB BLUE** into the Blue capped tank. Both the nozzle pistol and filler cap of the tank are clearly marked
- Only use **DENOF-RB BLUE** equipment when storing or refilling **DENOF-RB BLUE**
- Keep your **DENOF-RB BLUE** equipment clean and free from dust or dirt
- Ensure your **DENOF-RB BLUE** tank and container seals remain intact
- Use demineralised
- water (or **DENOF-RB BLUE**) when cleaning internally or priming **DENOF-RB BLUE** equipment
- Protect against misuse by not mixing with tap water, fuel, oil or other liquids
- Wear protective clothing if you are handling large quantities of **DENOF-RB BLUE** with the risk of a spill
- If you spill **DENOF-RB BLUE** on the ground, in a vehicle or on a painted surface, rinse thoroughly with water
- Protect from extreme temperatures. **DENOF-RB BLUE** freezes at an ambient temperature of 12°F or -11°C
- Gently warm the container to melt the **DENOF-RB BLUE** if it freezes in its storage container. **DENOF-RB BLUE** can be used again, once thawed, as it returns to its original state
- Keep your **DENOF-RB BLUE** out of direct sunlight
- Store below an ambient temperature of 30°C as **DENOF-RB BLUE** can start to decompose
- Chill your **DENOF-RB BLUE** container if it becomes over heated by spraying the sealed container with water

DON'T

- Do not fill **DENOF-RB BLUE** into the diesel tank
- Do not fill diesel into the **DENOF-RB BLUE** tank
- Do not fill the **DENOF-RB BLUE** tank with water or any other liquid
- Do not mix **DENOF-RB BLUE** with other liquids – it is not an additive
- Do not use **DENOF-RB BLUE** if contaminated with tap water or other substances such as diesel fuel
- Avoid spilling **DENOF-RB BLUE** on the ground as the surface may become slippery or the concrete or brickwork could be effected
- Do not leave spilt **DENOF-RB BLUE** unwashed
- Do not operate your vehicle without **DENOF-RB BLUE**. It is illegal to do so, and will result in extra downtime
- Do not use other substances other than **DENOF-RB BLUE** e.g. Urea Solutions. Costly damage may occur in the SCR system
- Do not over-ride the system as this may affect your warranty, it is illegal and may also put your vehicle into a “limp home type” mode
- Do not use dirty equipment, such as funnels, jugs or oil containers for refilling **DENOF-RB BLUE**
- Do not store **DENOF-RB BLUE** in direct sunlight



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