



Y Blu

Diesel Exhaust Fluid



Made with ❤️ Packed in 



About Yathaavat

A passionate first-generation entrepreneur Manendra Singh (who ran a venture of logistics and fashion apparel) was hustling to explore problems, gaps, and opportunities to solve and bring sustainable impact in the lives of millions. When he took a break and spent some time in the village near Agra then his emotions touched with agriculture and he fell in love with solving the problems of agriculture and farmers. He decided to work on unconventional crops to uplift the lives of farmers which can create a small dent and contribute to the economy of the country. He started learning about medicinal and aromatic plants in late 2017. He planned to start farming to increase the dimension of learning in this domain and started motivating other farmers towards aromatics crops. In 2018, these efforts gave birth to Yathaavat which blends passion and essence to soothe, heal, and enhance customer experience by keeping the environment, health, safety, and wellness at the center.

However, it was during a routine trip to a remote village in Uttar Pradesh to collect essential oil from the distillation unit that Manendra stumbled upon a new opportunity. Stranded with a car laden with essential oils due to a depleted Diesel Engine Fluid (DEF) tank, he struggled a lot with fellow farmers to get DEF from the city to bring the car operational on the road, he realized the pressing need for DEF in the agricultural settings. Turning adversity into innovation, the Yathaavat Solutions team has started supplying DEF to agricultural & related stakeholders, ensuring seamless operations and driving efficiency in farming practices. As their impact grew, so did their ambition. Today, Yathaavat Solutions with their revolutionary YBlu DEF has evolved beyond agriculture, expanding into other industries, institutions, and organizations. With a commitment to sustainable development, they continue to pave the way for positive change, one innovative solution at a time.

Team

Yathaavat Solutions has 100+ industrial collaborations & 500+ farmers clusters across the country. We have mentors from automobile, chemical, petroleum & aromatics industry, agriculture institutions, IITs, etc.

Vision

To be globally admired industrial, edible, aromatic oil brand that enhances the quality of life of all stakeholders.

Mission

1. To build bridge between product and consumer.
2. Stewardship towards nature, automobile, agriculture & essential oils.
3. High-quality, purity, and affordability of the product
4. Production with high ethics and standards.
5. Sustainable impact on community we touch and love.

Core Values

Accessibility | Responsibility | Optimistic | Mindfulness | Adaptability | Technology Driven | Innovative | Customer Focused | Sustainability





DEF (Diesel Exhaust Fluid)

What is DEF? is the mixture of high-purity synthetic urea and deionized water that is used in selective catalytic reduction (SCR) systems on diesel engines. Diesel exhaust fluid is a non-hazardous solution/fluid that is injected into the exhaust stream via a controlled dosing module where the water vaporizes, leaving ammonia molecules free to travel into the catalytic converter, where it reacts and neutralizes the NOx molecules, converting them to nitrogen and water

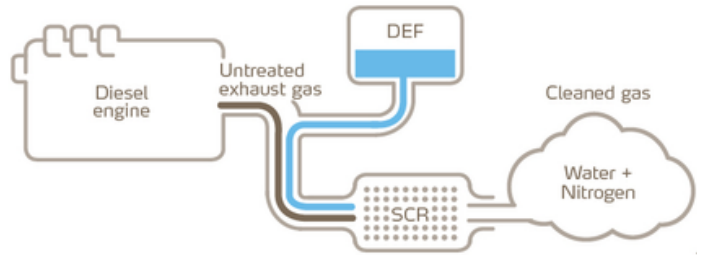
DEF has been widely accepted as a vital fluid in trucks and many diesel pickups and SUVs to meet the emissions standards of BS4/BS6 vehicles. DEF is not a fuel additive and never comes into contact with diesel. It is stored in a separate tank, typically with a blue filler cap.

DEF Usage

You will not need to replenish your Diesel Exhaust Fluid tank every time you refuel. Diesel Exhaust Fluid consumption will be approximately 3% of your fuel consumption (for every 300L of fuel consumed, you will require 9L of Diesel Exhaust Fluid).

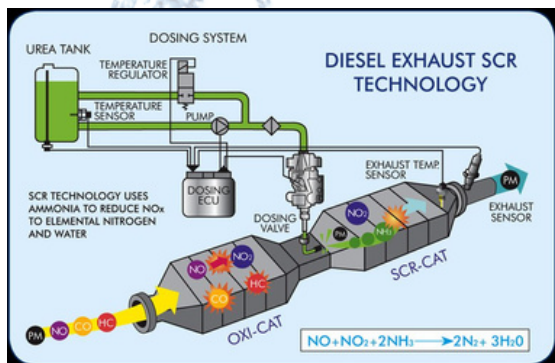
Only fill Diesel Exhaust Fluid into the marked Diesel Exhaust Fluid DEF tank on the vehicle.

HOW IT WORKS ? is carried onboard SCR-equipped vehicles in specially designed tanks and is dosed into the SCR system at a rate equivalent to 2–5% of diesel consumption. This low dosing rate ensures long refill periods, and the use of diesel exhaust fluid helps improve fuel economy, allowing fleets to realize a reduction in overall operating costs.



SCR (Selective Catalytic Reduction) ?

SCR is a new technology that leading Indian heavy-duty diesel engine makers adopted after testing various technologies intended for reducing emission levels to the required EPA standards. SCR technology achieves the reduction of exhaust fume emissions required and allows for maximum engine operation in terms of performance and fuel economy. The use of YBlue DEF is the most effective way to take full advantage of SCR technology and to protect engine systems from the possibility of gradual degradation or clogging due to contamination. It also helps to prevent the loss of efficiency, costly parts replacement, and engine downtime.



SCR/DEF Maintenance Points:

- When filling the tank wipe-up any spillage -
- Check DEF solution quality for shelf life and any contamination
- Check level and fill to mark if required
- In low ambients, check tank and delivery tube heaters
- Check DEF filter and change at recommended period



YBlu DEF - Why it's important



YBlu DEF is API-certified and meets the automotive industry specifications defined by ISO 22241 to ensure its purity and composition. A non-toxic, stable, odorless, and colorless solution, this product is safe to handle and use.

YBlu DEF helps to avoid clogging or damage in the catalytic converter and prevents loss of warranty coverage by the vehicle manufacturer. It aids in achieving maximum vehicle performance and efficiency.

Characteristics	Method	Value
Appearance	Visual	Clear
Urea Content, % m/m	ISO 22241-2 Annex C	32.6
Refractive Index @200C	ISO 22241-2 Annex D	1.38325
Alkalinity as NH3, % m/m	ISO 22241-2 Annex E	0.00195
Biuret, % m/m	ISO 22241-2 Annex G	0.23
Aldehydes, mg/ kg	ISO 22241-2 Annex F	0.98
Insoluble Matter, mg/ kg	ISO 22241-2 Annex G	1.99
Phosphate (PO4, mg/ kg	ISO 22241-2 Annex H	0.15
Calcium, mg/ kg	ISO 22241-2 Annex I	<0.1
Iron, mg/ kg		<0.01
Copper, mg/ kg		<0.01
Zinc, mg/ kg		0.01
Chromium, mg/ kg		0.03
Nickel, mg/ kg		0.06
Aluminium, mg/ kg		<0.1
Magnesium, mg/ kg		0.03
Sodium, mg/ kg		<0.1
Potassium, mg/ kg		0.11
Identity		ISO 22241-2 Annex J

YBlue DEF Features & Benefits:

- Meets ISO22241-1 and AUS32 Specifications
- Meets OEM specifications
- Formulated for SCR System Protection
- Reduces SCR Component Wear
- Extends SCR Catalyst Life
- Compatible with all Vehicle's SCR systems.
- Ensures maximum life for the SCR system.
- Superior protection for the SCR catalyst
- Prevents fouling/clogging of Spray nozzles
- Prevents gummy deposits in the tailpipe

Product Information:

- Complies with ISO-22241-1 Quality Standard specification.
- High-purity urea solution for the treatment of SCR-equipped diesel engines.
- Meets API Standards and carries API Certification.
- The optimal storage temperature is 23°F to 86°F.
- Avoid direct exposure to sunlight.
- Non-flammable / Non-hazardous / Non-toxic / Non-explosive
- DEF is a chemical product, not a petroleum product.





Why buy DEF from Yathaavat

Why YBlu is a Well-Known Brand Among Diesel Exhaust Fluids Manufacturers?

- As an experienced DEF manufacturing company, YBlu provides you with customized DEF-related services to meet your industry-specific requirements. Our customer base spans pan India as a testament to the quality and capabilities of our wide, diverse range of products.
- What's more, YBlu by Yathaavat has an experienced team of researchers & experts from IITs & other organizations who are always keeping track of market data and customer demands to come up with yet newer products.
- YBlu ensures very low biuret content, which prevents unwanted side reactions that clog the catalytic converter. Minimal presence of metal and other impurities that poison the Selective Catalytic Reduction (SCR) system.
- YBlu ensures a trouble-free operation and prolongs the life of a diesel vehicle's catalytic converter

YBlu DEF reduces emissions Today for a Greener Tomorrow: YBlu DEF are the market leader because they work as hard as you do and provide outstanding performance. YBlu DEF brings those traditions to the DEF market with the performance to the industry standards required by your equipment. Meeting the chemical requirements of ISO 22241, Diesel Engines – NOx Reduction Agent AUS 32, YBlu DEF conforms to manufacturing standards and certification requirements for API Certified Diesel Exhaust Fluid. This high quality is required by equipment manufacturers for the performance of their emission systems requiring diesel exhaust fluid.

Committed to Quality

SCR systems are sensitive to potential chemical impurities in the urea solution. Therefore, it is essential to maintain high standards of diesel exhaust fluid quality and ISO Standard 22241-1 is in place to ensure fluid quality. Our diesel exhaust fluid is manufactured in accordance with these strict standards, giving you the peace of mind you need when you use it in your SCR system.



Health & Safety

- Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from your YBlu Yathaavat representative.
- Avoid exposure to the skin, wash any affected areas thoroughly with water.





YBlu DEF FAQs?

What is Urea?

Urea is a compound of nitrogen that turns to ammonia when heated. It is used in a variety of industries, including as a fertilizer in agriculture.

Why use a 32.5% Urea Solution?

The 32.5% urea concentration is the ideal solution as it provides the lowest freeze point. Also, SCR systems will be calibrated to the 32.5% solution, so that optimum NOx will be reduced during operation.

Does DEF expand when frozen?

Yes, DEF expands by approximately 7% when frozen. DEF packaging and tanks are designed to allow for expansion.

What is YBlu DEF and how should it be used?

YBlu DEF is a mixture of high-purity urea (32.5%) and water (67.5%). It is used to chemically reduce the concentration of nitrogen oxide (NOx) in the exhaust emissions from diesel engines. DEF is contained in a designated DEF tank on the vehicle. Never fill the diesel fuel tank with DEF or try to use it as a fuel additive.

How much YBlu DEF is required?

YBlu DEF does not have to be replenished every time the diesel fuel tank is filled. The required amount is about 3% of the vehicle's diesel fuel consumption; ie. For every 100 gallons of diesel fuel consumed, only 3 gallons of DEF is required. But this consumption rate can be more than doubled, depending on the driving style, road, and weather conditions.

Is YBlu DEF harmful?

YBlu DEF is non-toxic, stable, odorless, and colorless. If it gets on your skin or clothes, rinse with water. If in the eyes, flush with clean water for at least 15 minutes. Although DEF is colorless, avoid spilling on clothing or vehicle upholstery.

How should YBlu DEF be stored?

YBlu DEF should be stored in a cool, dry, well-ventilated area at a constant temperature. For optimal shelf life (24 months), store between 86°F/30°C and 12°F/-11°C. It is better to keep DEF indoors, but an outdoor heated enclosure/container is also suitable. Avoid storing in direct sunlight. Storage temperature above 12°F is recommended to avoid crystallization, which starts at 11°F. Prolonged storage above 86°F will reduce shelf life by causing hydrolysis to occur, with the consequent formation of ammonia and pressure rise

What fuel saving is expected from a truck equipped with SCR technology?

Selective Catalytic Reduction (SCR) is an after-treatment emissions control technology, that deals with emissions outside of the engine, the manufacturers can tune engines to boost performance and achieve fuel savings. The extent of these savings will vary, but fleets' experiences with heavy-duty trucks suggest fuel savings of around 5% compared to Non-SCR models with similar engine specifications.

How do I check my DEF?

The distance until your next DEF refill can be viewed at any time in the message center on the vehicle dashboard. Follow these simple steps:

- Switch on the ignition, but do not start the engine (Check that a valid smart key is inside the vehicle and ensure that the brake pedal is not pressed. Hold down the engine START/STOP button until the instrument panel warning lamps illuminate)
- Press the OK button on the steering wheel control to access the Main Menu (On some models, repeatedly press the OK button until Driver Assistance is displayed)
- Using the down arrow button on the steering wheel control, scroll down and highlight Vehicle Info
- Press the OK button to confirm the selection
- Scroll down to highlight Diesel Exhaust Fluid (On some models this is displayed as Next Service)
- Press the OK button to confirm the selection. The DEF range is then displayed

*Not all vehicles are equipped to display the above information. Contact your Retailer for clarification.

Can I refill the DEF tank myself?

Yes, you can purchase DEF from Yathaavat and can refill in your vehicle's DEF tank, keeping all SOPs in consideration.





Do's ✓

Keep the DEF tank fill area and nozzle clean. DEF is supersensitive to airborne and residue contamination. Contaminated DEF will affect SCR system performance and lead to engine de-rating and even engine damage.

Store DEF in dedicated containers, preferably stainless steel drums HDEP plastic totes, or gallon jugs.

Store DEF in a cool, dry location out of direct sunlight. The ideal temperature range is 12-86 degrees F (-11 – 30 degrees C).

Monitor DEF quality with a digital refractometer. The ideal concentration is between 32.5 and 37 percent urea.

DEF can be stored for up to 2 years in ideal climate conditions.

Top off the DEF tank daily to prevent condensation, which can degrade DEF quality.

Low DEF levels will be indicated by a dashboard light. If the DEF tank is empty, the engine will still run but will start de-rating in a few hours and continue until the DEF is replenished.

Don't ✗

Don't confuse fills. If DEF is filled into the diesel tank, the engine will stop running after a short period and can possibly cause serious damage to the engine fuel and SCR system.

Don't store in metal container. DEF is not toxic but is corrosive to metals such as carbon steel, aluminum, copper and zinc. Never use containers that might have been used to store other fluids.

Don't store below 12 degrees F (-11 degrees C). DEF freezes at 12 degrees F (-11 degrees C) and turns slushy but this doesn't affect performance. If storing DEF in freezing temps, make sure it is in expandable containers. Never put fuel additives in DEF





To Schedule Your

Y Blu

Diesel Exhaust Fluid



Delivery Call



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Save Energy



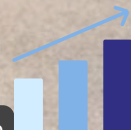
Protect Environment



Increase Lifetime



Improve Performance



MAKES VEHICLE SCR SYSTEM ACHIEVE BS4/BS6 EMISSION STANDARDS



YATHAAVAT®