



Diesel Exhaust Fluid (DEF)

Aqueous Urea Solution for Your SCR NOx Reduction Systems

Designed specifically for modern integral Selective Catalytic Reduction (SCR) NOx reduction systems, Fleetguard Diesel Exhaust Fluid (DEF) is carefully blended with high purity synthetic urea dissolved in deionized water. The finished formulation is further filtered to ensure maximum protection for internal SCR system components.



CC2585



CC2586



CC2587

Formulated for SCR Protection

- Reduces SCR component wear
- Extends SCR catalyst life

Packaging Options to Meet Your Needs

- Available in bulk, plastic and disposable totes, and plastic drums
- Bulk delivery from blending facility
- Smaller package sizes with built-in dispensing available mid 2009

Performance Tested

- Meets ISO 22241-1 and AUS 32 specifications
- Meets or exceeds OEM specifications



Fleetguard® Diesel Exhaust Fluid: Specially Blended for SCR System Protection

Frequently Asked Questions for Diesel Exhaust Fluid

What is DEF?

Diesel Exhaust Fluid (DEF) is one of the key elements involved in the SCR process. It is a nontoxic solution of 67.5% deionized water and 32.5% automotive grade urea. DEF helps to convert NOx into harmless nitrogen and water vapor. It is stable, colorless, odorless, and meets accepted international standards for purity and composition.

With a freezing level at 11 °F (-12 °C), should drivers in very cold temperatures be concerned?

The installation of an SCR system will provide for heating of the SCR tank and supply lines. There have been no reported issues based on our winter reliability and growth testing in Canada, nor has this been an issue among Northern European fleets in areas like Norway. We know DEF thaws quickly without changing its efficacy, and see no problem in allowing for the short time it takes to warm up using the heat of the engine when you start the truck.

DEF is corrosive to aluminum. What will storage tanks be made of?

They will be made of an appropriate, heavy-duty and tamper-free form of durable composite material.

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. Urea is naturally occurring, but is also commonly made from natural gas.

How does DEF work within an SCR system?

The goal of an SCR system is to reduce levels of NOx (oxides of nitrogen emitted from engines) that are harmful to our health and the environment. SCR is an aftertreatment technology that treats exhaust gas downstream of the engine. Small quantities of DEF (automotive grade urea solution) are injected into the exhaust stream and when mixed with the NOx changes into harmless nitrogen and water.

What is the DEF shelf life and storage?

When stored between 10 and 90 degrees Fahrenheit, DEF will last a minimum of 1 year without problems. Big bulk dispensers (1,000 gallon) have climate control systems. However, Intermediate Bulk Containers (IBC) do not have climate control systems. Therefore, in cold temperature regions it is recommended to store DEF-IBC's in a storage unit. In warm temperature regions it is recommended to store DEF-IBC's in a shaded area to avoid potential water evaporation.

Fleetguard DEF products available for OEM First Fill and Aftermarket:

Part Number	Product Name	Description
CC2584	Diesel Exhaust Fluid	Bulk
CC2585	Diesel Exhaust Fluid	Plastic 330 gal. Tote
CC2586	Diesel Exhaust Fluid	Disposable 275 Gal. Tote*
CC2587	Diesel Exhaust Fluid	Plastic 55 gal. Drum
391803400S	Valve/Cutter Kit	For Disposable Tote Use

* Some part numbers may not be available in all countries. Contact your local Customer Assistance Center for product availability.

** Use of Disposable Tote requires Valve/Cutter Kit to be ordered separately.

For more detailed information on Diesel Exhaust Fluid, please refer to the **Fleetguard Technical Information Catalog, LT32599**, or visit our Web site, cumminsfiltration.com.



For more information, visit cumminsfiltration.com

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