

DIESEL EXHAUST FLUID

What Is DEF?

Diesel Exhaust Fluid (DEF) is a clear, non-toxic solution made up of 67.5% water and 32.5% automotive grade urea. The solution is used to convert nitrogen oxide (NOx) into nitrogen gas and water vapor. Diesel engines that have Selective Catalytic Reduction (SCR) systems use DEF to change the oxides of NOx emissions into nitrogen and water.

Why use DEF?

The 2010 EPA standard requires the use of DEF in diesel engines purchased after January 1, 2010 that use SCR systems to reduce emissions. DEF is good for your vehicle and the environment!

Is there a quality standard for DEF?

Yes. DEF should be certified by the American Petroleum Institute (API). The International Organization for Standardization (ISO) has set quality requirements (22241-1:206) for diesel engines. The API Certification program ensures that Diesel Exhaust Fluid meets the specifications of ISO. Hoosier Penn sells products from manufacturers that have been certified by the American Petroleum Institute to meet the standards of ISO 22241-1:2006. Hoosier Penn itself is not currently a manufacturer of these products.

What are the proper conditions for storing DEF?

DEF should be stored in a dry, well-ventilated place, out of direct sunlight. The best storage temperature for DEF is around 77° F. Long term storage should be limited, especially in high temperatures. DEF may begin to degrade over long periods of time typically over a year and at temperatures over 90° F.

The DEF shelf life depends on storage conditions. When stored between 12° F to 86° F, shelf life will be over one year. However, if the maximum temperature stays below 75° F, the shelf life will be two years.

What if I accidentally spill DEF on my vehicle?

On some materials, DEF can be mildly corrosive, especially on aluminum, copper and other alloys. Simply wash any spilled DEF off with water.

Is DEF toxic in comparison to other automotive fluids?

No. Other fluids like diesel fuel, brake fluid, engine, transmission, and axle lube are more toxic than DEF. The EPA classifies DEF as non-hazardous. Urea is naturally occurring and is biodegradable.

How much DEF can I buy?

We sell DEF in a variety of different volumes to fit your needs, including:

- Cases with 2 jugs containing 2.5 gallons each
- 55 gallon plastic drums
- 300 gallon plastic totes

SPECIAL PUMPING EQUIPMENT IS NECESSARY-USUALLY STAINLESS STEEL