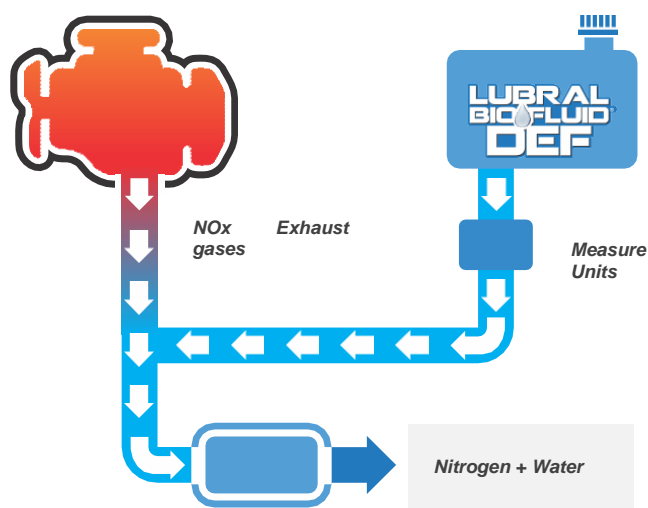


## DIESEL EXHAUST FLUID (DEF)

### DESCRIPTION

DEF, known as AdBlue® in Europe, is a urea-based reactive chemical specifically designed for use in SCR (Selective Catalytic Reducer) systems to reduce NOx emissions and convert them into nitrogen and water. DEF is a product prepared from pure urea with deionized water to create a 32.5% solution.



### BENEFITS

- No toxic and no contaminant.
- No flammable.
- Colorless and stable.
- No risky.
- Easy to use – not requires a special manipulation.

### APPLICATIONS

DEF is used in a great variety of agricultural and environmental necessities. Meets and exceed the requirements for ISO-22241-1, API y OEM.

The use of DEF is directly related with the fuel consumption. It expects that the DEF consumed in a

proportion of 50 to 1 with the diesel (For each 50 gallons of diesel consumed, it will use a gallon of DEF).

### MANAGE AND STORAGE

The ideal range of the product storage temperature is from -11°C to 30°C, this to avoid the freezing and maximizes its shell life. It recommends to storage in a free solar light place.

According to ISO-22241-1 standards, the recommended materials, and NO recommended materials to be in contact with the product are:

#### RECOMMENDED:

- Austenitic high alloy steels to Cr-Ni-Mo or stainless steel 304 (S30400), 304L (S30403), 316 (S31600) and 316L (S31603) according to ASTM A240, ASTM A276 and ASTM A312
- Titanium
- Ni-Mo-Cr-Mn-Cu-Si-Fe alloys, p. Eg Hastelloy c / c-276
- Polypropylene, free of additives
- Polyethylene, free of additives
- Perfluoroalkoxyl Alkane (PFA), free of additives
- Polyfluoroethylene (PFE), free of additives
- Polyvinylidene fluoride (PVDF), free of additives
- Polytetrafluoroethylene (PTFE), free of additives
- Copolymers of vinylidene fluoride and hexafluoropropylene, free of additives

#### NO RECOMMENDED:

- Carbon steels, zinc coated carbon
- Soft steels and iron
- Non-ferrous metals and alloys: cooper, cooper, zinc, and plum alloys
- Solders that contains plum, silver, zinc or cooper
- Aluminum and aluminum alloys
- Magnesium, and magnesium alloys
- Nickel-coated plastics or metals

## CHARACTERISTICS

TESTS	TEST METHOD	TYPICAL VALUE
Appearance	Visual	Bright and clear
Urea content, %	IR	32.5
Refraction Index	IR	1.3821

Typical Characteristics are those obtained with normal tolerance of production and no constitute a specification. Variations that do not affect the yield product during the normal manufacturing and on different mixing locations are expected. Information contained in this document is held to changes without previous advisement. The availability of the products could vary depending on the location. For further information, contact [venta@lubral.com](mailto:venta@lubral.com)