

# Blue DEF™

DIESEL EXHAUST FLUID

APPROVED FOR USE IN ALL DIESEL SCR SYSTEMS

## WHAT IS BLUEDEF®?

BlueDEF® is a mixture of 32.5% high purity synthetic urea and 67.5% deionized water that is used in Selective Catalytic Reduction (SCR) systems on diesel engines. DEF is the primary ingredient used to help convert NOx to harmless nitrogen and water. BlueDEF is stable, colorless, non-flammable, non-toxic and is classified as minimum risk for transportation. BlueDEF conforms to the ISO-22241-1 specification for DEF, is API registered and meets or exceeds OEM specifications.

## BLUEDEF HANDLING AND STORAGE

The shelf life of DEF is directly related to the temperature at which it is stored. Storage temperature between 12° and 86° F are recommended to maintain optimal shelf life of up to two years. If BlueDEF freezes, its efficacy will not be effected upon thawing. To maintain the purity of DEF and not harm the SCR Catalyst System care must be taken regarding the material of construction for all items that come in contact with the DEF solution. Included from the ISO-22241-1 standards are the recommended and not recommended materials for contact with DEF.

## PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	>212° F
Crystallization Point	12° F
Pounds/Gallons	9.09
Specific Gravity (Water=1)	1.09
Vapor Pressure (mm of Hg)	Not applicable
Vapor Density (Air=1)	0.6 H <sub>2</sub> O >1
Water Solubility	100%
Appearance	Colorless, clear liquid
Odor	None to slight ammonia
Evaporation Rate	<1

## MATERIALS RECOMMENDED FOR USE WITH DEF

Highly alloyed austenitic Cr-Ni-Mo-steels or stainless steel 304 (S30400), 304L (S30403), 316 (S31600) AND 316L (S31603) in accordance with ASTM A240, ASTM A276, and ASTM A312  
Titanium  
Ni-Mo-Cr-Mn-Cu-Si-Fe Alloys, e.g. 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

## MATERIALS NOT RECOMMENDED FOR USE WITH DEF

Carbon Steels, Zinc Coated Carbon Steels, and Mild Iron  
Non ferrous metals and alloys: Copper, Copper Alloys, Zinc, Lead  
Solders containing Lead, Silver, Zinc or Copper  
Aluminum, Aluminum Alloys  
Magnesium, Magnesium Alloys  
Plastics or metals coated with Nickel



**2.5 Gallon**  
Part# DEF002

UPC Code	0-74804-03211-6
Case UPC Code	
Case SCC-14 Code	1-00-74804-03211-3
Pack/Unit Case	1 per case
Weight/Case	22.75 lbs.
Case Dimensions	9.5"w x 9.5"l x 10"h
Cases Per Pallet	80
Pallets/Cases Per Truck	22 / 1,760
Units Per Truck	1,760
Truckload Weight*	41,140 lbs.
Pallet Size	40" w x 48" l x 44.75" h
Pallet Weight*	1,870 lbs.
Cases/Rows High	20/4

\*includes product and pallet weight (50 lbs. each)



DEF ISO 22241

**CHEMISTRY THAT DRIVES COMMERCE™**