



# BlueDEF™

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 Ha0 >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

## PACKAGING OPTIONS



**1 Gallon**  
Part# DEF003



**2.5 Gallon**  
Part# DEF002



**55 Gallon Drum**  
Part# DEF001 (Plastic Valve)  
Part# DEF001S (Stainless Steel Valve)  
0-74804-03522-3



**275 Gallon Tote**  
Part# DEF275P (Plastic Valve)  
Part# DEF275S (Stainless Steel Valve)  
0-74804-03308-3



**330 Gallon Tote**  
Part# DEF330P (Plastic Valve)  
Part# DEF330S (Stainless Steel Valve)  
0-74804-03309-0

UPC Code	0-74804-02567-5	0-74804-03211-6	0-74804-03522-3	0-74804-03308-3	0-74804-03309-0
Case UPC Code	0-74804-12567-2				
Case SCC-14 Code	100-74804-02567-2	1-00-74804-03211-3			
Pack/Unit Case	4 per case	1 per case			
Weight/Case	37 lbs.	22.75 lbs.	522.5 lbs. (per drum)	2,581 lbs. (per tote)	3,086 lbs. (per tote)
Case Dimensions	8.5"l x 15"w x 12.25"h	9.5"l x 9.5"w x 10"h	22.5" dia. x 35.5" high	48"l x 40"w x 46"h	48"l x 40"w x 53"h
Cases Per Pallet	48	80	4 (drums)	1 (tote)	1 (tote)
Pallets/Cases Per Truck	22 / 1,056	22 / 1,760	20	16	14
Units Per Truck	4,224	1,760	80	16	14
Truckload Weight*	40,172 lbs.	41,140 lbs.	42,800 lbs.	41,296 lbs.	43,204 lbs.
Pallet Size	48"l x 40"w x 53.75"h	48"l x 40"w x 44.75"h	48"l x 40"w x 40.25"h	48"l x 40"w x 46"h	48"l x 40"w x 53"h
Pallet Weight*	1,826 lbs.	1,870 lbs.	2,140 lbs.	2,581 lbs.	3,086 lbs.
Cases/Rows High	12/4	20/4			

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



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DEF ISO 22241