

# KleenDEF™



## DIESEL EXHAUST FLUID

APPROVED FOR SCR-EQUIPPED ENGINES



DEF ISO 22241

### PRODUCT DESCRIPTION

KleenDEF Diesel Exhaust Fluid 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. It is stable, colorless, non-flammable, non-toxic and is classified as minimum risk for transportation. KleenDEF conforms to the ISO-22241-1 specification for DEF, is API registered and meets or exceeds OEM specifications.

### 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 KleenDEF 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. (See the ISO-22241-1 standards for the listing of recommended and not recommended materials for contact with DEF.)

### PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	>212° F	Vapor Density (Air=1)	0.6 H2O >1
Crystallization Point	12° F	Water Solubility	100%
Pounds/Gallons	9.09	Appearance	Colorless, clear liquid
Specific Gravity (Water=1)	1.09	Odor	None to slight ammonia
Vapor Pressure (mm of Hg)	Not applicable	Evaporation Rate	<1

### PACKAGING OPTIONS



**2.5 Gallon**  
Part# KLF002



**55 Gallon Drum**  
Part# KLF001



**275 Gallon Tote**  
Part# KLF275



**330 Gallon Tote**  
Part# KLF330

UPC Code	0-74804-06106-2	0-74804-05734-8	0-74804-05733-1	0-74804-05732-4
Case UPC Code				
Case SCC-14 Code	1-00-74804-06106-3			
Pack/Unit Case	1 per case			
Weight/Case	22.75 lbs.	522.5 lbs. (per drum)	2,581 lbs. (per tote)	3,086 lbs. (per tote)
Case Dimensions	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	80	4 (drums)	1 (tote)	1 (tote)
Pallets/Cases Per Truck	22 / 1,760	20	16	14
Units Per Truck	1,760	80	16	14
Truckload Weight*	41,140 lbs.	42,800 lbs.	41,296 lbs.	43,190 lbs.
Pallet Size	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*	1,870 lbs.	2,140 lbs.	2,581 lbs.	3,086 lbs.
Cases/Rows High	20/4			

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

Also available in bulk.