



DIESEL EXHAUST FLUID (DEF)

STARFIRE DEF is a mixture of 32.5% high purity urea and 67.5% deionized water used in Selective Catalytic Reduction (SCR) systems on diesel engines. DEF is the primary ingredient used to help convert diesel powered bus, car and truck NOx emissions to harmless nitrogen and water. STARFIRE DEF is stable, colorless, non-flammable, non-toxic and is classified as minimum risk for transportation. Conforms to the ISO 22241-1 spec for DEF, is API registered and meets or exceeds all OEM specifications.

- Use only dedicated DEF equipment when handling/dispensing DEF and keep dispensing equipment clean and free from dust or dirt
- DO NOT fill DEF into diesel fuel tank
- DO NOT fill diesel fuel into DEF tank
- DO NOT add water to DEF

HANDLING & STORAGE

The shelf life of DEF is directly related to the temperature at which it is stored. Storage temperature should be 23°F (-5°C) and 68°F (20°C) and is recommended to maintain optimal shelf life of up to two year. Keep out of direct sunlight. If DEF freezes, its efficiency will not be affected upon thawing. STARFIRE DEF may not be compatible with all materials. Contact your STARFIRE sales rep for more information.

PHYSICAL & 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)	N/A
Vapor Density (Air-1)	0.6 H2O, >1
Water Solubility	100%
Appearance	Colorless, clear liquid
Odor	None to slight ammonia
Evaporation Rate	<1

