



NEXGEN DEF

NEXGEN DEF (Diesel Exhaust Fluid) is manufactured by creating a mixture of 32.5% high purity synthetic urea and 67.5% deionized water. DEF is consumed in Selective Catalytic Reduction (SCR) systems on diesel engines. It is the primary ingredient used to help convert NOx to harmless nitrogen and water.

NEXGEN DEF HANDLING AND STORAGE

The shelf life of DEF is related directly to the temperature at which it is stored. A storage temperature between 12° and 86°F is recommended to attain the optimal shelf life of up to two years. If NEXGEN DEF freezes, its efficacy will not be effected once thawed. To maintain DEF purity and prevent harm to the SCR Catalyst System, care must be taken regarding the material of construction for all items that come in contact with the DEF. Included below are the recommended and not recommended materials for contact with DEF from the ISO-22241-1 standard. **NEVER MIX DEF WITH DIESEL FUEL.**

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 ₂ O >1
Water Solubility	100%
Appearance	Colorless, clear liquid
Odor	None to slight ammonia
Evaporation Rate	<1

DEF ISO-22241-1

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



MATERIALS RECOMMENDED FOR USE WITH DEF

Highly alloyed austenitic Cr-Ni-Mo-steels or stainless steel 304 (S30400), 304L (S30403), 316 (S31600) AND 31 6L (S31603) in accordance with ASTM A2 40, ASTM A276, and ASTM A312
Titanium
Ni-Mo-Cr-Mn-Cu-Si-Fe Alloys, e.g. Hastello c/c-27 6
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

NEXGEN DEF PACKAGING OPTIONS

2.5 Gallon Case



55 Gallon Drum



275 Gallon Tote



On Site Dispensers

