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Product | Type

XPD Formula

A new generation performance diesel fuel additive including a multifunctional detergent/dispersant diesel fuel treatment

Application

XPD Formula is a multi-functional additive for upgrading the quality and enhancing the performance of diesel fuels. **XPD Formula** contains lubricity improvers to increase the lubricity properties of low sulfur diesel fuels.

Recommended for use at: 462—1890 ppm v/v

Physical Characteristics

	Minimum	Target	Maximum
BASE NUMBER (MGKOH/G)		1.7	
FLASH POINT, C, PMCC		54	
LBS PER U.S. GAL @ 15.6 C		7.48	
LBS PER IMP GAL @ 15.6 C		8.96	
POUR POINT, C		-47	
SPECIFIC GRAVITY @ 15.6 C	0.877	0.897	0.917
VISCOSITY @ 40 C, CST		7.86	

Chemical Characteristics

	Minimum % Weight	Typical	Maximum % Weight
NITROGEN	0.92	1.66	1.13

Benefits

Opti-Lube XPD Formula diesel additive contains a revolutionary deposit control additive, which delivers market leading performance in new common rail direct injection systems, as well as out standing nozzle cleanliness in older engine designs. Opti-Lube XPD Formula allows the fuel marketer to dial in a range of performance levels cased on market requirements, using a single additive. The

benefits imparted to diesel fuel quality by Opti-Lube XPD Formula can be summarized as follows.

- Flextreat support for range of performance levels using a single product increasing customer flexibility and reducing inventory logistics costs for multiple products.
- Increases the cetane number of the fuel for improved performance.
- Enhances the lubricity of fuel.
- Contains cold flow additives to lower CFPP and improve winter operability.
- Able to keep clean and clean up injector deposits in both legacy vehicles and the latest engine designs in both the light duty and heavy duty markets.
- Outstanding performance in the Peugeot DW10 test procedure with the capability to completely prevent loss of engine power and even restore lost power due to fouled injectors at higher product treats.
- Very high levels of deposit control in standard CEC XUD-9 injector fouling test, with capability to achieve 100% flow remaining at extremely competitive product treat rate.
- Clean up XUD-9 indirect injection fuel injectors.
- Elimination of steel corrosion in treated fuel as demonstrated in ASTM D665A procedure.
- Proven performance in mineral-biodiesel blends, including injector keep clean in XUD-9 and DW10 methods.
- Comprehensive no-harms credentials.

When used at the recommended treat rates, XPD Formula helps diesel fuels meet the National Conference on Weights and measures (NCWM), Engine Manufacturer's Association (EMA) and Truck Maintenance Council (TMC) requirements for:

- Injector cleanliness as measured by:
  - *Cummins L10 Injector Depositing Test (Keep Clean)
  - *Peugeot XUD0 Test (Keep Clean)
- Improved fuel thermal and storage stability
- Dispersancy of insoluble gums
- Corrosion protection
- Prevention of formation of stable fuel-water emulsions

Opti-Lube XPD Formula Unloading, storage and blending instructions

General handling instructions– In general, Opti-Lube recommends, as a minimum, the use of neoprene or nitrile rubber gloves and safety glasses or chemical splash goggles. The Material Safety Data Sheet should be consulted for specific information and for information on health and safety when handling this product.

Fire and explosion hazard data			
	Flash Point (method)	Classification	
	54.6°C PMCC	Combustible	
Temperature Recommendations			
UNLOADING	Plumping Temperature	Ambient°C	°F
	Maximum Temperature*	38°C	100.4°F
STORAGE			
Maximum Temperature for Long-Term Storage		37°C	98.6°F
BLEANDING			
Maximum Base Oil Temperature for Mechanical or In-Line Mixing		38°C	100.4°F
EQUIPMENT RECOMMENDATIONS			
Type of Pump	Centrifugal		
Type of Transfer Line	Ball Launched		
Transfer Line Size	2-3 inch / 5-8 cm.		
HEAT SOURCE			
Type	N/A		
Storage Tanks	N/A		
NOTES			
POUR POINT	-47.4°C, -53.2°F		
Low Flash Point:	Use caution when handling this material		

Additional Recommendations

*Holding the material in excess of this temperature may cause chemical degradation. Use steam for heating and tracing only when the material is in motion to avoid localized overheating. Cold Temperature Storage - If product has been stored below its pour point temperature it should be heated to 21°C/20°F before using.