

ExxonMobil Exterex™ NP451 Synthetic Fluid

Category : Fluid , Lubricant

Material Notes:

Product Description: Esterex™ Polyol Esters are API category Group V fluids. Esterex™ Polyol Esters have excellent lower-temperature properties, good lubricating properties and low volatilities. Esterex™ Polyol Esters can be used as sole basestocks or blendstocks with other synthetic fluids in many automotive and industrial lubricant applications. These esters are ideal for use in highly loaded, high-speed lubricant applications where energy efficiency is desired. **Appearance:** Bright & Clear **Availability:** Asia Pacific, Central America, North America and South America **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Exterex-NP451-Synthetic-Fluid.php

Physical Properties	Metric	English	Comments
Density	0.933 g/cc	0.0337 lb/in ³	ASTM D4052
	@Temperature 15.6 °C	@Temperature 60.1 °F	
Viscosity Measurement	130	130	Index; ASTM D2270
Kinematic Viscosity	7610 cSt	7610 cSt	ASTM D445
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Kinematic Viscosity at 40°C (104°F)	25 cSt	25 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	5.0 cSt	5.0 cSt	ASTM D445
Evaporation Loss	6.0 %	6.0 %	ASTM D972
	@Temperature 205 °C, Time 23400 sec	@Temperature 401 °F, Time 6.50 hour	

Thermal Properties	Metric	English	Comments
Pour Point	-60.0 °C	-76.0 °F	ASTM D5950/D97
Flash Point	245 °C	473 °F	PMCC; ASTM D92
	255 °C	491 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.4506	1.4506	ASTM D1218

Chemical Properties	Metric	English	Comments
Acid Value	0.010	0.010	[mg KOH/g]; ASTM D974 (mod)

Descriptive Properties	Value	Comments
Aniline Point	<68°F	ASTM D611
Biodegradation	0.836	OECD 301F
Color	<0.5	ASTM D1500
Composition	Water	<500 ppm, ASTM D6304 (mod)
Density Correction Factor	0.00076 (g/cc)/°C	ASTM D1250
Elastomer Compatibility	-0.08	Fluoroelastomer Hardness Change, ASTM D471
	-0.11	Nitrile Hardness Change, ASTM D471
	0.127	Fluoroelastomer Volume Change, ASTM D471
	-0.15	Polyacrylate Hardness Change, ASTM D471
	-0.159	Fluoroelastomer Tensile Strength Change, ASTM D471
	-0.229	Fluoroelastomer Elongation Change, ASTM D471
	0.25	Nitrile Volume Change, ASTM D471
	-0.362	Polyacrylate Elongation Change, ASTM D471
	-0.364	Nitrile Elongation Change, ASTM D471
	-0.392	Polyacrylate Tensile Strength Change, ASTM D471
	-0.478	Nitrile Tensile Strength Change, ASTM D471
	0.512	Polyacrylate Volume Change, ASTM D471
Fire point	549°F	COC, ASTM D92
Hydrolytic Stability, TAN Change	0.17 mg KOH/g	ASTM D2619
Kauri-Butanol Value	72	ASTM D1133
Noack Volatility	0.046	ASTM D5800/DIN 51581
RPVOT	240 min	Neat, ASTM D2272

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