

## ExxonMobil Exterex™ TM111 Synthetic Fluid

Category : Fluid , Lubricant

### Material Notes:

**Product Description:** Esterex™ Trimellitate Esters are API category Group V fluids. These esters have excellent low-temperature properties, good lubricating properties and low volatilities. Esterex™ Trimellitate Esters can be used as sole basestocks or blendstocks with other synthetic fluids in many engine and industrial lubricant applications. **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-TM111-Synthetic-Fluid.php](http://www.lookpolymers.com/polymer_ExxonMobil-Exterex-TM111-Synthetic-Fluid.php)

Physical Properties	Metric	English	Comments
Density	0.978 g/cc	0.0353 lb/in <sup>3</sup>	ASTM D4052
	@Temperature 15.6 °C	@Temperature 60.1 °F	
Viscosity Measurement	81	81	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	124 cSt	124 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	11.9 cSt	11.9 cSt	ASTM D445
Evaporation Loss	1.0 %	1.0 %	ASTM D972
	@Temperature 205 °C, Time 23400 sec	@Temperature 401 °F, Time 6.50 hour	

Thermal Properties	Metric	English	Comments
Pour Point	-32.8 °C	-27.0 °F	ASTM D5950/D97
Flash Point	240 °C	464 °F	PMCC; ASTM D92
	274 °C	525 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.4845	1.4845	ASTM D1218

Chemical Properties	Metric	English	Comments
Acid Value	<= 0.16	<= 0.16	[mg KOH/g]; ASTM D974 (mod)

Descriptive Properties	Value	Comments
Aniline Point	16.5°F	ASTM D611
Biodegradation	<1%	OECD 301F

Color Descriptive Properties	<0.5 Value	ASTM D1500 Comments
Composition	Water	<1000 ppm, ASTM D6304 (mod)
Density Correction Factor	0.000733 (g/cc)/°C	ASTM D1250
Elastomer Compatibility	-0.005	Nitrile Tensile Strength Change, ASTM D471
	0.023	Fluoroelastomer Volume Change, ASTM D471
	-0.03	Fluoroelastomer Hardness Change, ASTM D471
	0.092	Fluoroelastomer Elongation Change, ASTM D471
	-0.1	Nitrile Hardness Change, ASTM D471
	0.145	Nitrile Volume Change, ASTM D471
	0.151	Polyacrylate Elongation Change, ASTM D471
	-0.16	Polyacrylate Hardness Change, ASTM D471
	0.181	Polyacrylate Volume Change, ASTM D471
	-0.188	Nitrile Elongation Change, ASTM D471
	-0.207	Fluoroelastomer Tensile Strength Change, ASTM D471
	-0.243	Polyacrylate Tensile Strength Change, ASTM D471
Fire point	576°F	COC, ASTM D92
Hydrolytic Stability, TAN Change	0.01 mg KOH/g	ASTM D2619
Kauri-Butanol Value	35	ASTM D1133
Noack Volatility	0.014	ASTM D5800/DIN 51581
RPVOT	>1210 min	With AO, ASTM D2272
	310 min	Neat, ASTM D2272

## Contact Songhan Plastic Technology Co.,Ltd.

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