ExxonMobil Synesstic™ 12 Synthetic Fluid

Category : Fluid , Lubricant

Material Notes:

Product Description: Synesstic™ Alkylated Naphthalene (AN) represent a unique class of API Group V category fluids. Synesstic™ AN products offer improved hydrolytic, thermal and oxidative stability versus other Group V fluids. Synesstic™ AN products are particularly suited for use as a blendstocks in synthetic lubricant applications that require high stability under extreme operating conditions. Appearance: Bright & ClearAvailability: Africa & Middle East, Asia Pacific, Central America, Europe, North America and South AmericaInformation provided by ExxonMobil

Order this product through the following link:
http://www.lookpolymers.com/polymer_ExxonMobil-Synesstic-12-Synthetic-Fluid.php

Physical Properties	Metric	English	Comments
Density	0.887 g/cc @Temperature 15.6 °C	0.0320 lb/in³ @Temperature 60.1 °F	ASTM D4052
Brookfield Viscosity	22000 cP @Temperature -15.0 °C	22000 cP @Temperature 5.00 °F	ASTM D2983
Viscosity Measurement	105	105	Index; ASTM D2270
Kinematic Viscosity	392500 cSt @Temperature -40.0 °C	392500 cSt @Temperature -40.0 °F	ASTM D445
Kinematic Viscosity at 40°C (104°F)	109 cSt	109 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	12.4 cSt	12.4 cSt	ASTM D445
Evaporation Loss	6.3 % @Temperature 205 °C, Time 23400 sec	6.3 % @Temperature 401 °F, Time 6.50 hour	ASTM D972

Thermal Properties	Metric	English	Comments
Pour Point	-36.1 °C	-33.0 °F	ASTM D5950/D97
Flash Point	240 °C	464 °F	PMCC; ASTM D92
	258 °C	496 °F	COC; ASTM D92

Optical Properties	Metric	English	Comments
Refractive Index	1.506	1.506	ASTM D1218

Electrical Properties	Metric	English	Comments

Electrical Properties	Metric	English	Comments
Dielectric Breakdown	50000 V	50000 V	

Chemical Properties	Metric	English	Comments
Acid Value	<= 0.050	<= 0.050	[mg KOH/g]; ASTM D974 (mod)

Descriptive Properties	Value	Comments
Aniline Point	194°F	ASTM D611
Bromine Number	<1.0 g Br/100g	ASTM D1159 (mod)
Color	<4.0	ASTM D1500
Composition	Water	<50 ppm, ASTM D6304 (mod)
Density Correction Factor	0.000540 (g/cc)/°C	ASTM D1250
Elastomer Compatibility	0	Fluoroelastomer Hardness Change, ASTM D471
	-0.001	Fluoroelastomer Elongation Change, ASTM D471
	0.004	Fluoroelastomer Volume Change, ASTM D471
	0.012	Polyacrylate Volume Change, ASTM D471
	0.02	Polyacrylate Hardness Change, ASTM D471
	0.03	Nitrile Hardness Change, ASTM D471
	0.05	Fluoroelastomer Tensile Strength Change, ASTM D471
	0.1	Nitrile Volume Change, ASTM D471
	-0.127	Nitrile Tensile Strength Change, ASTM D471
	0.157	Polyacrylate Tensile Strength Change, ASTM D471
	-0.214	Nitrile Elongation Change, ASTM D471
	-0.248	Polyacrylate Elongation Change, ASTM D471
Fire point	554°F	COC, ASTM D92
Hydrolytic Stability, TAN Change	0.02 mg KOH/g	ASTM D2619
Kauri-Butanol Value	10	ASTM D1133
Noack Volatility	0.045	ASTM D5800/DIN 51581
RPVOT	>1400 min	With AO, ASTM D2272
	180 min	Neat, ASTM D2272

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