

ExxonMobil Synesstic™ 5 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 & Clear**Availability:** 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-5-Synthetic-Fluid.php

Physical Properties	Metric	English	Comments
Density	0.908 g/cc	0.0328 lb/in³	ASTM D4052
	@Temperature 15.6 °C	@Temperature 60.1 °F	
Brookfield Viscosity	3950 cP	3950 cP	ASTM D2983
	@Temperature -15.0 °C	@Temperature 5.00 °F	
	29000 cP	29000 cP	ASTM D2983
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Viscosity Measurement	74	74	Index; ASTM D2270
Kinematic Viscosity	43600 cSt	43600 cSt	ASTM D445
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Kinematic Viscosity at 40°C (104°F)	29 cSt	29 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	4.7 cSt	4.7 cSt	ASTM D445
Evaporation Loss	15.6 %	15.6 %	ASTM D972
	@Temperature 205 °C, Time 23400 sec	@Temperature 401 °F, Time 6.50 hour	

Thermal Properties	Metric	English	Comments
Pour Point	-38.9 °C	-38.0 °F	ASTM D5950/D97
Flash Point	222 °C	432 °F	COC; ASTM D92
	256 °C	493 °F	PMCC; ASTM D92

Optical Properties	Metric	English	Comments
Refractive Index	1.522	1.522	ASTM D1218

Optical Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Breakdown	49000 V	49000 V	

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

Descriptive Properties	Value	Comments
Aniline Point	89.6°F	ASTM D611
Bromine Number	<1.3 g Br/100g	ASTM D1159 (mod)
Color	<1.5	ASTM D1500
Composition	Water	<50 ppm, ASTM D6304 (mod)
Density Correction Factor	0.000527 (g/cc)/°C	ASTM D1250
Elastomer Compatibility	0	Fluoroelastomer Hardness Change, ASTM D471
	0.008	Fluoroelastomer Volume Change, ASTM D471
	0.019	Fluoroelastomer Tensile Strength Change, ASTM D471
	-0.06	Fluoroelastomer Elongation Change, ASTM D471
	-0.066	Polyacrylate Tensile Strength Change, ASTM D471
	-0.09	Nitrile Hardness Change, ASTM D471
	-0.11	Polyacrylate Hardness Change, ASTM D471
	0.141	Nitrile Volume Change, ASTM D471
	0.179	Polyacrylate Volume Change, ASTM D471
	-0.256	Nitrile Elongation Change, ASTM D471
	-0.272	Polyacrylate Elongation Change, ASTM D471
	-0.278	Nitrile Tensile Strength Change, ASTM D471
Fire point	493°F	COC, ASTM D92
Hydrolytic Stability, TAN Change	0.02 mg KOH/g	ASTM D2619
Kauri-Butanol Value	31	ASTM D1133
Noack Volatility	0.127	ASTM D5800/DIN 51581

RPVOT Descriptive Properties	>1400 min Value	With AO ASTM D2272 Comments
	196 min	Neat, ASTM D2272

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