

ExxonMobil 100 Mobil Aviation Grease SHC

Category : Fluid , Lubricant , Lithium Gellant , Polyalphaolefin (PAO)

Material Notes:

Mobil Aviation Grease SHC 100 is a supreme performance synthetic grease which combines the unique features of a polyalphaolefin (PAO) synthetic base fluid with those of a high quality lithium complex soap thickener. The thickener system provides a high dropping point, excellent resistance to water wash, and a tenacious structural stability. The unique physical properties of the synthetic base oil, combined with selected additives, provide outstanding protection against wear, rust, corrosion, and high temperature degradation. The wax-free feature of the synthetic base oil allows for low-temperature mobility/pumpability and low starting and running torque values. Also, the traction property of the synthetic base fluid is considerably lower than mineral, allowing for temperature reductions in the load zone of rolling element bearings. Mobil Aviation Grease SHC 100 is the product of choice for aircraft wheel bearing applications. Mobil Aviation Grease SHC 100 is recommended for aviation applications which need a lubricant that can perform normal functions, yet go far beyond in terms of high and low temperatures and long-life performance. It is a NLGI Grade 2/ISO VG 100 grease having the cold-temperature pumping resistance of most mineral-oil NLGI Grade 0 greases. It provides outstanding protection at operating temperatures from -54 °C (-65 °F) to 177 °C (350 °F). Mobil Aviation grease SHC 100 is recommended for high speed, heavy load applications such as wheel bearings, as well as for slower speed, high load applications such as landing gear bearings, slides, and joints. Mobil Aviation Grease SHC 100 is approved as a wheel bearing grease by all major aircraft wheel manufacturers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-100-Mobil-Aviation-Grease-SHC.php

Physical Properties	Metric	English	Comments
Kinematic Viscosity at 40°C (104°F)	100 cSt	100 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	14.5 cSt	14.5 cSt	ASTM D445
Oxidative Stability	100 hour	100 hour	Pressure Drop of 3 kPa; ASTM D942
	500 hour	500 hour	Pressure Drop of 5 kPa; ASTM D942
Evaporation Loss	5.0 %	5.0 %	30 hrs @ 177°C; ASTM D972

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Load Wear Index	40	40	ASTM D2596
Four Ball Extreme Pressure, Weld Load	250 kg	551 lb (mass)	ASTM D2596
Four Ball Wear	0.300 mm	0.0118 in	ASTM D2266
Penetration	280	280	60 Stroke Worked @ 25°C, mm/10; ASTM D217
	305	305	Extended Worked Penetration Stability, 100000 Strokes, mm/10; FTM 313

Oil Separation Mechanical Properties	8.0 % Metric	8.0 % English	30 hrs @ 177°C; ASTM D6184 Comments
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Thermal Properties	Metric	English	Comments
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Dropping Point	278 °C	532 °F	ASTM D2265
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Descriptive Properties	Value	Comments
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Color	red	
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Copper Strip Corrosion, ASTM D4048	1B (max)	
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Corrosion Prevention, ASTM D1743	pass	48 hrs @ 125°F
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Particle Count, 25-50 microns	pass, 25-125 microns, dirt count, particles/mL, FTM 3005, pass 125 micron or larger	
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Soap/Thickener Type	lithium complex	
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Structure	smooth; slight tack	
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Water Washout, ASTM D1264, wt%	3	1 hr @ 41°C
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	7	1hr @ 79°C
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China