

ConocoPhillips Syncon® 680 Synthetic EP Gear Oil, AGMA No. 8EP

Category : Fluid , Lubricant , Polyalphaolefin (PAO)

Material Notes:

Description: Conoco Syncon Synthetic EP Gear Oil is a synthetic polyalphaolefin (PAO) lubricant for enclosed gear sets requiring extreme-pressure gear oils and operating at high temperatures. It is suited for extruder reducers, agitator drives, centrifuge gear boxes and industrial gear drives of spur, helical, herringbone and bevel gear design that require severe-duty, extreme-pressure lubricants. It is also suited for ball, roller and needle antifriction bearings. Syncon Synthetic EP Gear Oil is available in five ISO viscosity grades: 150, 220, 320, 460 and 680. Information provided by ConocoPhillips.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ConocoPhillips-Syncon-680-Synthetic-EP-Gear-Oil-AGMA-No-8EP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.867 g/cc	0.867 g/cc	
Density	0.865 g/cc	0.0313 lb/in ³	
Viscosity Measurement	162	162	Viscosity Index
Saybolt Viscosity at 100°F	3580 SUS	3580 SUS	
Saybolt Viscosity at 210°F	306 SUS	306 SUS	
Kinematic Viscosity at 40°C (104°F)	685 cSt	685 cSt	
Kinematic Viscosity at 100°C (212°F)	63 cSt	63 cSt	
ASTM Color	1.0	1.0	ASTM D1500

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Weld Load	315 kg	695 lb (mass)	ASTM D974
Four Ball Wear	0.330 mm	0.0130 in	Scar Diameter; ASTM D4172
Timken Test	31700 g	70.0 lb	OK Load; ASTM D2782

Thermal Properties	Metric	English	Comments
Pour Point	-36.1 °C	-33.0 °F	
Flash Point	240 °C	464 °F	

Chemical Properties	Metric	English	Comments
Total Acid Number	0.20	0.20	[mg KOH/g]; ASTM D974

Descriptive Properties	Value	Comments
ASTM Rust A&B	Pass	
Copper Corrosion	1b	
FZG Scuffing Test	>14 Failure Load Stage	ASTM D5182
Oxidation Stability	2.56%	Viscosity Increase @ 121°C, ASTM D2893
Precipitation Number	<0.05 ml	ASTM D91

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