

ConocoPhillips Syncon® 460 Synthetic EP Gear Oil, AGMA No. 7EP

Category : Fluid , Lubricant , Polyalphaolefin (PAO)

Material Notes:

Syncon EP Plus Gear Oil is a premium quality, synthetic, extreme-pressure industrial gear lubricant developed for the lubrication of enclosed gear drives and heavily loaded plain or rolling-element bearings operating at extreme temperatures or in severe service. It is suitable for use over a wider temperature range than conventional mineral oil-based gear oils. It meets the performance requirements of major gear drive manufacturers. Syncon EP Plus Gear Oil is formulated with synthetic polyalphaolefin (PAO) base oils, a viscosity modifier and a non-chlorinated extreme-pressure additive package. It has outstanding oxidation resistance and thermal stability at high temperatures to help minimize deposit formation and provide long service life. It has high load-carrying capacity for protection against scuffing and wear, protects against rust and corrosion, and is resistant to excessive foaming that can interfere with proper lubrication. It has a high viscosity index and low pour point for use in equipment operating at extreme temperatures or over a very wide temperature range.

Applications: Heavily loaded enclosed gear drives, such as those found in mine hoists and mining machinery
Enclosed industrial gear drives operating at very low or very high temperatures, or operating continuously at higher than normal operating temperatures
Heavily loaded plain and rolling-element bearings operating at extreme temperatures
Applications where the equipment manufacturer recommends a high VI, synthetic, extreme-pressure gear oil

Syncon EP Plus Gear Oil meets the requirements of the following industry and OEM specifications: ANSI/AGMA Standard 9005-E02
DIN 51517 Part 3, Lubricating Oils, Type CLP HCG
German Steel Industry SEB 181226, Type CLP HC
ISO 12925-1:1996, Type L-CKC
Joy Machinery TO-SHEP (ISO VG 320), TO-SMEP (ISO VG 220)
U.S. Steel 224

Features/Benefits: Outstanding oxidation resistance and thermal stability at high temperatures
Outstanding low-temperature properties
High viscosity index and low pour point for use over a wide temperature range
Excellent extreme-pressure properties
Protects against scuffing and wear
Protects against rust and corrosion
Non-chlorinated additive system
Suitable for year-round use
Extended service intervals compared with conventional mineral oil-based gear oils

Information provided by ConocoPhillips

Order this product through the following link:

http://www.lookpolymers.com/polymer_ConocoPhillips-Syncon-460-Synthetic-EP-Gear-Oil-AGMA-No-7EP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.861 g/cc	0.861 g/cc	
Density	0.859 g/cc	0.0310 lb/in ³	
Viscosity Measurement	166	166	Viscosity Index
Saybolt Viscosity at 100°F	2404 SUS	2404 SUS	
Saybolt Viscosity at 210°F	236 SUS	236 SUS	
Kinematic Viscosity at 40°C (104°F)	463 cSt	463 cSt	
Kinematic Viscosity at 100°C (212°F)	49 cSt	49 cSt	
ASTM Color	1.0	1.0	ASTM D1500

Mechanical Properties	Metric	English	Comments

Four Ball Extreme Pressure, Weld Mechanical Properties	315 kg Metric	695 lb (mass) English	ASTM D2783 Comments
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	-38.9 °C	-38.0 °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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