

## ConocoPhillips Syncon® 22 Synthetic AW Hydraulic Fluid 22

Category : Fluid , Lubricant , Polyalphaolefin (PAO)

**Material Notes:**

Syncon AW Hydraulic Fluid is a premium quality, synthetic antiwear hydraulic fluid developed for use in industrial and mobile equipment operating at extreme temperatures. It is particularly recommended for use in applications where operating conditions may be unfavorable or too severe for conventional mineral oilbased hydraulic oils. Syncon AW Hydraulic Fluid is formulated with synthetic polyalphaolefin (PAO) base oils and an ashless (zinc-free) additive package to provide excellent performance over a wide temperature range. It provides excellent wear protection for hydraulic pumps and motors, and protects hydraulic system components against rust and corrosion. It has outstanding oxidation resistance and thermal stability at high temperatures to minimize deposit formation and provide long service life. It also has excellent low-temperature properties for cold start-ups. It has excellent water-separating properties to minimize the formation of emulsions, and is resistant to excessive foaming that can cause poor or sluggish hydraulic system response. It has a high dielectric strength for use as insulating oil in electrical service bucket trucks. Syncon AW Hydraulic Fluid meets the performance requirements of all major hydraulic pump manufacturers, and is recommended for use in all types of high-pressure, high-speed hydraulic pumps. Applications: Industrial and mobile equipment operating under extreme temperature conditions Automated machine tools Bucket trucks (cherry pickers) used for servicing electrical power lines or for tree trimming Hydraulic hoists and service station lifts Mobile construction equipment Chain drives Electric motor bearings Syncon AW Hydraulic Fluid meets the requirements of the following industry specifications: ANSI/AGMA Standard 9005-E02 Open Gear Lube meets the requirements of the following industry specification: DIN 51524 Part 2, Antiwear Hydraulic Oils, Type HLP ISO 11158:1997, Family H (Hydraulic Systems), Type HM U.S. Steel 127 Features/Benefits: Outstanding oxidation resistance and thermal stability at high temperatures Outstanding pumpability at low temperatures Excellent wear protection for hydraulic pumps and motors Protects against rust and corrosion Separates rapidly from water Good foam resistance High dielectric strength Compatible with conventional mineral oils and commonly used seals Information provided by ConocoPhillips.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ConocoPhillips-Syncon-22-Synthetic-AW-Hydraulic-Fluid-22.php](http://www.lookpolymers.com/polymer_ConocoPhillips-Syncon-22-Synthetic-AW-Hydraulic-Fluid-22.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.821 g/cc	0.821 g/cc	
Density	0.820 g/cc	0.0296 lb/in <sup>3</sup>	
Viscosity Measurement	127	127	Viscosity Index
Saybolt Viscosity at 100°F	115 SUS	115 SUS	
Saybolt Viscosity at 210°F	42 SUS	42 SUS	
Kinematic Viscosity at 40°C (104°F)	22 cSt	22 cSt	
Kinematic Viscosity at 100°C (212°F)	4.6 cSt	4.6 cSt	
Oxidative Stability	40 hour	40 hour	RPVOT; ASTM D2272
ASTM Color	0.50	0.50	ASTM D1500

Thermal Properties	Metric	English	Comments
Pour Point	-66.1 °C	-87.0 °F	
Flash Point	218 °C	424 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	35.0 kV/mm	889 kV/in	No thickness given

Chemical Properties	Metric	English	Comments
Total Acid Number	0.17	0.17	[mg KOH/g]; ASTM D974

Descriptive Properties	Value	Comments
Copper Corrosion	1A	ASTM D130
Demulsibility	10 minutes to pass	ASTM D1401
FZG Scuffing Test	11 Failure Load Stage	ASTM D5182

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