



SYNOLAN AW

(Synthetic Antiwear Hydraulic Fluid)

SYNOLAN AW is a superior quality synthetic lubricant with excellent shear stability and durability. It provides outstanding oxidative and thermal stability, superior resistance to sludge, varnish, lacquer and carbon deposit formation, excellent water separation properties, high lubricity and film strength, a broad operating temperature range and increased useful oil life. It excels in a wide number of applications, especially hydraulic and circulating oil systems, where the equipment is operating under unusual conditions.

SYNOLAN AW is blended from premium quality synthetic base stocks and further enhanced with the latest ashless additive technology. It also satisfies the requirements for non-EP gear lubricants. These oils contain additives that meet requirements for Denison HF-0, Vickers industrial and mobile applications as well as Cincinnati Lamb specifications.

SYNOLAN AW is specially recommended for high temperature enclosed gear and bearing services. It can be used at temperatures from -20°F to 350°F. All grades provide excellent resistance to rust and copper corrosion and exhibit superior antifoam properties. Its exceptional low temperature fluidity provides applications not normally possible with mineral oil products of comparable viscosity grades.

The superior low temperature properties and inherent high viscosity index enables this product to perform satisfactorily in year-round service. It reduces wear at cold startup, and maintains viscosity and high film strength at high temperatures. This means that equipment gets superior wear protection at both high and low temperatures, and potential energy savings.

SYNOLAN AW is capable of extending the lubricant service life over that of mineral oil based products. In addition, it often extends the service life of filters and separators, resulting in an overall improvement of productivity, increased efficiency, reduced maintenance cost and downtime.

SYNOLAN AW is compatible with conventional seals, paints and coatings. It is readily miscible with mineral oil, synthetic ester or vegetable oil based fluids.

BENEFITS:

- LOW COLOR
- ODORLESS AND TASTELESS
- EXCELLENT WEAR PROTECTION
- RESISTANCE TO OXIDATION, SLUDGE AND VARNISH DEPOSITS

APPLICATIONS:

SYNOLAN AW is ideal for hydraulic oil applications where extremely hot or cold conditions prevent the use of conventional mineral oil. **SYNOLAN AW** is also excellent for long-drain hydraulic fluids or for hydraulic applications where low color is required.

SYNOLAN AW is *not* intended for use in heavily loaded applications or any automotive or industrial gear application that requires extreme pressure (EP) gear oil (For these applications use **SYNPRO EP GEAR OIL**).





SYNOLAN AW OILS

(Synthetic Antiwear Hydraulic Fluid)

TYPICAL CHARACTERISTICS

Product Code	45000	45001	45002	45003
ISO Viscosity Grade	32	46	68	100
API Gravity	34.6	33.8	32.5	31.5
Specific Gravity	0.852	0.856	0.863	0.868
Density, lbs/gal	7.09	7.21	7.18	7.19
Viscosity (ASTM D-445):				
cSt @ 40°C	32	43.5	64	95
cSt @ 100°C	5.8	7.25	9.6	12.7
SUS @ 100°F	163	223	329	491
SUS @ 210°F	45.7	50.4	58.7	70.6
Viscosity Index	125	128	131	130
Pour Point (D-97), °F (°C)	-60 (-51)	-55 (-48)	-40 (-40)	-45 (-43)
Flash Point (D-92), °F (°C)	465 (241)	470 (243)	480 (249)	500 (260)
Fire Point (D-92), °F (°C)	495 (257)	505 (263)	515 (268)	530 (277)
Copper Corrosion (D-130) (3 Hours @ 212 F)	1b	1b	1b	1b
Demulsibility @ 130 F (D-1401)				
Time for Separation, min	20	20	20	45
Oil/Water/Emulsion, ml	40/40/0	40/40/0	40/40/40	40/40/0
Four Ball Wear Test (D-2266) (1 Hour/75 C/1200 rpm/40 kg)				
Scar Diameter, mm	0.5	0.5	0.5	0.5

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.
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