

SYNOLAN AW OILS



LUBRICATION



TOTAL

Premium synthetic ashless hydraulic oil

APPLICATIONS

Hydraulic Systems
and
Machine Oils

- **SYNOLAN AW OILS** are specially designed, ashless synthetic hydraulic oils that excel in hydraulic applications or machine oils which require extreme stability.
- **SYNOLAN AW OILS** are capable of extending the lubricant service life, typically two, three, or four times over that of mineral oil based products.

SPECIFICATIONS

Meets or exceeds requirements of:
Denison HF-0
Vickers industrial and mobile applications

ADVANTAGES

Long hydraulic fluid life
and high operating
reliability under extreme
operating conditions

- Exceptional high thermal and oxidative stability and durability.
- Excellent low-temperature fluidity for easy cold start ups
- Excellent water separation and high hydrolytic stability at both high and low temperatures
- Very good anti-wear protection along with a high viscosity index assures high film strength at elevated temperature.
- Ashless formula with excellent filterability
- Useful temperature range from -20°F to 450°F.

TYPICAL CHARACTERISTICS--SYNOLAN AW OILS				
ISO viscosity grade	32	46	68	100
API gravity (ASTM D 1298)	34.6	33.8	32.5	31.5
Specific gravity @ 60/60°F (ASTM D 1298)	0.852	0.856	0.863	0.868
Viscosity cSt @ 40°C (ASTM D-445)	32	43.5	64.0	95
Viscosity cSt @ 100°C (ASTM D-445)	5.8	7.25	9.6	12.7
Viscosity index (ASTM D 2270)	125	128	131	130
Pour point °F (°C) (ASTM D-97)	-60 (-51)	-55 (-48)	-40 (-40)	-45 (-43)
Flash point °F (°C) (ASTM D-92)	465 (241)	470 (243)	480 (249)	500 (260)
Oil-water separation time, min (ASTM D-1401)	20	20	20	45
Four ball wear scar diameter, mm (ASTM D-2266) (1 Hour/75 C/1200 rpm/40 kg)	0.50	0.50	0.50	0.50

TOTAL Lubricants USA Southwest

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