SYNOLAN 1000 OILS





Premium synthetic ashless multi-purpose oil

APPLICATIONS

Antiwear oils for all types of moving parts

Compressors
Gears
Bearings
Circulating systems

- SYNOLAN 1000 OILS oils are multi-purpose, ashless synthetic circulating oils
 that excel in a wide range of applications including air compressors (especially
 viscosity grades 32 through 150), bearings, enclosed gear boxes (especially
 viscosity grades above ISO 150), circulating oil systems, heat transfer systems
 and other equipment operating in severe conditions.
- SYNOLAN 1000 OILS are capable of extending the lubricant service life, typically two, three, or four times over that of mineral oil based products. The ISO 32 to 68 grades are recommended for rotary screw compressors while the 100 and 150 grades are recommended for reciprocating air compressors. They may be used as R&O or AW gear oils when AGMA EP grades are not required.

SPECIFICATIONS

None

ADVANTAGES

Long fluid life and high operating reliability

- Exceptional high thermal and oxidative stability and durability.
- Excellent low-temperature fluidity for easy cold start ups
- Excellent water separation at both high and low temperatures
- Very good anti-wear protection along with a high viscosity index assures high film strength at elevated temperature.
- Non-EP lubricant offers excellent corrosion protection at high temperature
- Ashless formula with high hydrolytic stability prevents deposits and maintains excellent cleanliness
- · Excellent filterability
- Useful temperature range from -20°F to 450°F.
 Compatible with conventional mineral oils and many synthetic oils (diesters, PAO, polyol esters, etc.)

TEST PROPERTIES—please see next page.

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SYNOLAN 1000 OIL SERIES

(Page 2—test properties)





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TYPICAL CHARACTERISTICSSYNOLAN 1000 OILS (Compressor oil grades)								
ISO viscosity grade	32	46	68	100	150			
AGMA grade	-	1	2	3	4			
API gravity (ASTM D 1298)	35.0	36.0	33.0	32.5	30.8			
Specific gravity @ 60/60°F (ASTM D 1298)	0.848	0.845	0.860	0.863	0.872			
Density, lbs/gal (ASTM D 1298)	7.08	7.04	7.15	7.19	7.26			
Viscosity cSt @ 40°C (ASTM D-445)	30.0	42.3	69.5	106	150			
Viscosity cSt @ 100°C (ASTM D-445)	6.0	7.3	12.4	18.0	17.5			
Viscosity index (ASTM D 2270)	148	136	180	189	128			
Pour point °F (°C) (ASTM D-97),	-70 (-57)	-70 (-57)	-55 (-48)	-45 (-43)	-40 (-40)			
Flash point °F (°C) (ASTM D-92),	500 (260)	530 (277)	500 (260)	500 (260)	475 (246)			
Copper corrosion strip rating (ASTM D-130) (3 Hours @ 212 F)	1b	1b	1b	1b	1b			
Oil-water separation time, min (ASTM D-1401)	15	15	45	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	0.40			

TYPICAL CHARACTERISTICSSYNOLAN 1000 OILS (Gear oil grades)								
ISO viscosity grade	220	320	460	680	1000			
AGMA grade	5	6	7	8	8A			
API gravity (ASTM D 1298)	30.2	29.6	29.2	28.4	27.5			
Specific gravity @ 60/60°F (ASTM D 1298)	0.875	0.878	0.875	0.885	0.890			
Density, lbs/gal (ASTM D 1298)	7.29	7.31	7.34	7.368	7.41			
Viscosity cSt @ 40°C (ASTM D-445)	234	320	480	654	937			
Viscosity cSt @ 100°C (ASTM D-445)	23.7	29.1	38.4	55.3	68			
Viscosity index (ASTM D 2270)	127	124	124	146	144			
Pour point °F (°C) (ASTM D-97),	-35 (-37)	-30 (-34)	-20 (-29)	-30 (-34)	-20 (-29)			
Flash point °F (°C) (ASTM D-92),	475 (246)	470 (243)	465 (241)	520 (271)	520 (271)			
Copper corrosion strip rating (ASTM D-130) (3 Hours @ 212 F)	1B	1B	1B	1B	1B			
Oil-water separation time, min (ASTM D-1401)	30	30	30	30	-			
Four ball wear scar diameter, mm (ASTM D-2266) (1 Hour/75 C/1200 rpm/40 kg)	0.40	0.40	0.40	0.40	0.40			

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