

SYNOLAN 1000



LUBRICATION



TOTAL

Premium, Synthetic (PAO), Ashless Multi-Purpose Oils.

APPLICATIONS

Synthetic, anti-wear oils for all types of moving parts.

Compressors
Gears
Bearings
Circulating systems

- **SYNOLAN 1000 OILS** are multi-purpose, ashless synthetic (PAO) circulating oils that excel in a wide range of applications including air compressors (especially viscosity grades ISO 32 through ISO 150), bearings, enclosed gear boxes (especially viscosity grades above ISO 150), circulating oil systems, heat transfer systems, and other equipment operating in severe service 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 ISO 68 grades are recommended for rotary screw compressors while the ISO 100 and ISO 150 grades are recommended for reciprocating air compressors. These products may be used as R&O or anti-wear (AW) gear oils when AGMA extreme pressure (EP) grades are not required.

ADVANTAGES

Long fluid life and high operating reliability.

- Exceptional high thermal and oxidative stability.
- Excellent low temperature fluidity for easy cold start-ups.
- Excellent water separation at both high and low temperatures.
- Very good anti-wear protection.
- High viscosity index.
- Ashless formula--prevents deposits and maintains cleanliness.
- Excellent filterability.
- Useful temperature range: -20°F - 450°F.
- Compatible with mineral oils and many synthetic oils (diesters, PAO, POE, etc.)

TEST PROPERTIES ---PLEASE SEE NEXT PAGE

TOTAL Specialties USA, Inc.

Linden, NJ 07036
5 North Stiles Street
1-800-323-3198
www.totalspecialties.com

This lubricant must be applied as recommended and used for the application for which it was designed. TOTAL Specialties USA, Inc. will have no responsibility for any injury to persons or property resulting from misuse or misapplication of the lubricant. A safety data sheet conforming to the OSHA Hazard Communication Standard 29 CFR Section 1910.1200 can be downloaded at www.totalspecialties.com. Copyright 2016 All rights reserved.

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TYPICAL CHARACTERISTICS	METHODS	SYNOLAN 1000				
		32	46	68	100	150
ISO Viscosity Grade						
AGMA Grade		-	1	2	3	4
API Gravity	ASTM D 1298	35.0	36.0	33.0	32.5	30.8
Viscosity at 40°C, cSt	ASTM D 445	30.0	42.3	69.5	106.0	150.0
Viscosity at 100°C, cSt	ASTM D 445	6.0	7.3	12.4	18.0	17.5
Viscosity Index	ASTM D 2270	148	136	180	189	128
Density @ 60°F, lbs./gal.	ASTM D 1298	7.08	7.04	7.15	7.19	7.26
Specific Gravity @ 60/60°F	ASTM D 1298	0.848	0.845	0.860	0.863	0.872
Pour Point, °F(°C)	ASTM D 97	-70(-57)	-70(-57)	-55(-48)	-45(-43)	-40(-40)
Flash Point, COC, °F(°C)	ASTM D 92	500(260)	530(277)	500(260)	500(260)	475(246)
Oil-Water Separation Time, min.	ASTM D 1401	15	15	45	45	-
Copper Corrosion	ASTM D 130	1B	1B	1B	1B	1B
4 Ball Wear, scar diam., mm	ASTM D 2266	0.50	0.50	0.50	0.50	0.40

TYPICAL CHARACTERISTICS	METHODS	SYNOLAN 1000				
		220	320	460	680	1000
ISO Viscosity Grade						
AGMA Grade		5	6	7	8	8A
API Gravity	ASTM D 1298	30.2	29.6	29.2	28.4	27.5
Viscosity at 40°C, cSt	ASTM D 445	234.0	320.0	480.0	654.0	937.0
Viscosity at 100°C, cSt	ASTM D 445	23.7	29.1	38.4	55.3	68.0
Viscosity Index	ASTM D 2270	127	124	124	146	144
Density @ 60°F, lbs./gal.	ASTM D 1298	7.29	7.31	7.34	7.37	7.41
Specific Gravity @ 60/60°F	ASTM D 1298	0.875	0.878	0.875	0.885	0.890
Pour Point, °F(°C)	ASTM D 97	-35(-37)	-30(-34)	-20(-29)	-30(-34)	-20(-29)
Flash Point, COC, °F(°C)	ASTM D 92	475(246)	470(243)	465(241)	520(271)	520(271)
Oil-Water Separation Time, min.	ASTM D 1401	30	30	30	30	-
Copper Corrosion	ASTM D 130	1B	1B	1B	1B	1B
4 Ball Wear, scar diam., mm	ASTM D 2266	0.40	0.40	0.40	0.40	0.40

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