



Synthetic Gear Oil

We are committed to
Reducing your maintenance cost !™

Biotope-Gear is a non-toxic, fully synthetic gear fluid. Biotope-Gear performs exceptionally well under extreme heat and cold. Achieves higher viscosity indexes, a very low rate of cavitation and will not create a drag effect on gears. This results in energy savings and improved performance. Biotope-Gear forms a thin protective film over the entire gear which resists wear, prevents unprotected starts and premature breakdown. Biotope-Gear reduces operating temperature providing superior service life and minimal wear on gear, shaft and bearings. Biotope-Gear has an increased resistance to oxidation and lasts 3 to 5 times longer than regular oil.

Meets or exceeds the requirements of:

- ✓ GM LS-2 Specification LR for EP gear oils
- ✓ AISE 224 *formerly USS 224*
- ✓ ANSI/AGMA 9005
- ✓ Compatible with sealer Hernon Gasket Replacer 910.

Advantages

- Resists varnish formation and cavitation
- Will not plug filters in presence of water
- Thermally stable – Minimum degradation - Long life.
- High film strength - Exceptional EP performance protects against premature failure
- Advanced water separation - Excellent antifoam and demulsibility characteristics
- Rust and corrosion inhibited - Non-corrosive to yellow metals.
- Will work under low temperature down to -47°C (-52°F)
- Inherently biodegradable.
- Compatible with bronze

Applications

- Highly loaded gearboxes.
- Enclosed gears under severe temperature ranges
- Offshore operations
- Mine equipment
- Construction and Forestry equipment
- Turbine

The above information is true and precise to the best of our knowledge. All recommendations or suggestions are made without warranty since the circumstances and conditions are beyond our control.

Lubri-Lab Inc.: www.lubrilab.com info@lubrilab.com

1540, de Coulomb, Boucherville QC Canada J4B 8A3

Toll free Canada-USA: 1 (888) 449-1626 Tel +1 (450) 449-1626 Fax: +1 (450) 449-9174

ISO 9001:2015 & C-TPAT validated and certified



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USS 224 & AGMA 9005-D94 PERFORMANCE
ISO VG 150 ISO VG 220 Biotope-Gear Oil

Tests	Method	USS 224	AGMA 9005 D94	Results ISO VG 150	Results ISO VG 220
API Gravity, Degrees	D 287	25 min		34.97	34.1
Kinematic Viscosity @40°C, cSt	D 445	ISO 150:135-165	ISO 150:135-165	151.2	224
@100°C, cSt		ISO 220: 198-242 Report	ISO 220:198-242 Report	21.0	27.9
Viscosity Index	D 2270	95 min	120 min	163	162
Precipitation No.	D 91	Trace		Nil	
Pour Point, °F	D 97	15 max (-9.4 °C)	-22 max (-5.6°C)	-54.4 (-48°C)	-52 (-46.6°C)
Flash Point, °F	D 92	450 min (232.2°C)		487.4 (253°C)	455 (237.8°C)
Copper Corrosion	D 130	1B max	1B max	1A	1A
Foam Sequence 1	D892		75/10	0/0	0/0
Sequence 11			75/10	70/0	70/0
Sequence 111			75/10	20/0	20/0
Steel Corrosion	D 665	Pass		Pass	Pass
Oxidation Viscosity Increase, %	USS S-200	6.0 max	6.0 max	1.46	1.46
Precipitation No.,%		0.1 max	0.1 max	Trace	Trace
4-BALL EP Load Wear Index, kg	D 2783	45 min (99 lb)		53.8 (118.6 lb)	53.8 (118.6 lb)
Weld Point, kg		250 min (551 lb)		250 (551 lb)	250 (551 lb)

Grades ISO: 32, 68, 100, 150, 220, 320, 680.

Availability: Case (12 x 1 liter), 10 liters (2.5 gallons), 20 liters (5 gallons), 55 liters (15 gallons), 205 liters (55 gallons).

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