THERMYL-GLYDE®

Severe Service Gear and Bearing Oil

ROYAL PURPLE®

Beyond Synthetic™

Beyond Synthetic™

Thermyl-Glyde® is an ultra-tough, long life, industrial EP synthetic gear oil proven to make gears run smoother, quieter, cooler and longer without overhauls.

Thermyl-Glyde® gains its performance advantage over competing mineral and synthetic oils through its superior blend of synthetic base oils plus Synslide® additive technology, Royal Purple's unique, proprietary, noncorrosive, EP additive technology. Thermyl-Glyde® protects gears in severe service applications where other EP oils fail.

Thermyl-Glyde® is recommended for users looking for much longer oil life and significantly improved gear box reliability and performance.

Synslide® additive technology makes the difference!

Synthetic oils enable Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synslide® additive technology that gives Royal Purple's EP lubricants their amazing performance advantages. Synslide® additive technology truly is *beyond synthetic.*™

Synslide® additive technology, Royal Purple's tough, EP lubricating film provides maximum protection under boundary lubrication conditions typically caused by heavily loaded, slow speed and/or shock load conditions. This tenacious, slippery film significantly improves lubrication and reduces wear by increasing the oil film thickness and toughness, which helps to prevent metal-to-metal contact in gears and bearings.

Synslide® additive technology is noncorrosive to gears and bearings, including case-hardened gears that are easily pitted by conventional sulfur-phosphorus EP oils. Synslide® additive technology displaces water from metal surfaces and excels in protecting equipment in wet environments. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

Performance Advantages:

- **High Film Strength**
  Thermyl-Glyde® has greater film strength and protects gears and bearings far beyond the ability of conventional EP gear oils.

- **Compatible with Seals**
  Thermyl-Glyde® has excellent seal compatibility.

Performance Advantages Continued:

- **Shock Load Protection**
  Thermyl-Glyde® employs a dense, high molecular weight, synthetic cushioning additive to protect against fatigue failure in gears subjected to sudden shock loads.

- **Rapidly Separates from Water**
  Water contaminated oil is the number one cause of bearing failures. Thermyl-Glyde® rapidly and completely separates from water. This helps to prevent sludge and wear commonly found in wet gear boxes. Water is easily drained from the bottom of the oil reservoir.

- **Longer Oil Life**
  Thermyl-Glyde® has outstanding oxidation stability, which greatly extends oil change intervals while keeping gear boxes clean.

- **Reduces Bearing Vibrations**
  The tough oil film of Thermyl-Glyde® coupled with its ability to micro-polish contacting bearing elements provides superior bearing lubrication.

- **Excellent Corrosion Protection**
  Synslide® additive technology forms an ionic chemical film on metal surfaces, which protects during operation and acts as a preservative oil during shutdown.

- **Saves Energy**
  The tough oil film of Thermyl-Glyde® and its low coefficient of friction save energy in gear boxes operating under load.

- **Synthetic Solvency**
  The natural solvency of Thermyl-Glyde® cleans up dirty gear boxes and keeps them clean.

- **Compatible with Other Oils**
  Thermyl-Glyde® is compatible and can be mixed with other mineral oils and most synthetic oils. (It is not compatible with silicone or glycol synthetics.)

- **Environmentally Responsible**
  Thermyl-Glyde® components are TSCA listed and meet EPA, RCRA and OSHA requirements. Thermyl-Glyde® extends oil drain intervals, eliminates premature oil changes, decreases the amount of oil purchased and disposed of and conserves energy.

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	ISO Grade										
Typical Properties*	32	46	68	100	150	220	320	460	680	1000	1500
AGMA Grade	—	1EP	2EP	3EP	4EP	5EP	6EP	7EP	8EP	8AEP	—
Viscosity											
cSt @ 40˚C	32	6	68	100	150	220	320	460	680	1000	1500
cSt @ 100˚C	5.5	7.0	9.1	11.9	15.5	19.8	25.2	32.6	44.0	54.0	73.0
SSU @100˚F	165	237	352	520	785	1160	1699	2454	3641	5409	8151
SSU @ 210˚F	45	50	57	68	82	100	125	159	214	262	355
VI	107	108	110	109	105	103	101	104	109	104	108
Flash ˚F	350	385	395	425	435	425	430	430	425	415	420
Pour Point ˚F	-40	-40	-40	-20	-20	-20	-20	-20	-20	-20	-20
Specific Gravity @ 60˚F	0.847	0.851	0.856	0.857	0.866	0.866	0.876	0.876	0.880	0.885	0.889
Lb./Gal.	7.05	7.09	7.13	7.14	7.21	7.21	7.27	7.29	7.32	7.37	7.41
Corrosion Test											
Iron	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Bronze	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Rust Test											
Fresh Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Salt Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
D-1401 Demulsibility 180˚F	40/40/0/10	40/40/0/10	40/40/0/10	40/40/0/10	40/40/0/10	40/40/0/15	40/40/0/15	40/40/0/20	40/40/0/20	40/40/0/30	40/40/0/30
Timken OK Load, Lbs.	100+	100+	100+	100+	100+	100+	100+	100+	100+	100+	100+
FZG Test	12	12	12	12	12	12	12	12	12	12	12
Four Ball EP Test											
Weld Load, kgf	400	400	400	400	400	400	400	400	400	400	400

*Properties are typical and may vary

Note: When changing to Thermyl-Glyde®, its solvency cleans wear metals and deposits left behind by previos oils. These wear metals and deposits can cause abnormally high values on used oil anyalysis until equipment is clean.

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