THERMYL-GLYDE®

SEVERE SERVICE SYNTHETIC EP GEAR OIL

Thermyl-Glyde® is an ultra-tough, long life, EP industrial 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 formulation of synthetic base oils and state of the art gear oil additive chemistry, plus Synslide additive technology, Royal Purple's unique, proprietary, noncorrosive, EP technology.

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.

Thermyl-Glyde protects gears in severe service applications where other EP oils fail. Severe gear box operating temperatures rapidly degrade mineral and synthetic-blend gear oils at an accelerated rate, destroying the EP additive chemistry and oxidizing the base oils. The superior quality synthetic base stocks and additive package, along with a healthy top-treat of SynSlide, used in the Thermyl-Glyde formulation greatly increases high-temperature protection and performance. Thermyl-Glyde is recommended for users looking for longer oil life and significantly improved gear box reliability and operation. For more information, please request Royal Purple's *Gear Lubrication Manual.*

PERFORMANCE ADVANTAGES

HIGH FILM STRENGTH – Synerlec® additive technology dramatically reduces metal-to-metal contact, friction, and wear

SHOCK LOAD PROTECTION – Helps cushion and protect against fatigue failure in gears subjected to sudden shock loads

EXCEPTIONAL CORROSION & RUST PROTECTION – Prevents internal damage to equipment from chemical attack

SUPERIOR OXIDATION & THERMAL STABILITY – Greatest resistance to oil degradation and varnish formation for longer oil life

OUTSTANDING SYSTEM PERFORMANCE – Provides a wide operating temperature range and excellent shear stability

EXCELLENT DEMULSIBILITY – Rapidly separates from water, allowing free water to be drained from the system

OUTSTANDING ELASTOMER COMPATIBILITY – Will not harm seals designed for use with lubricating oils

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TECHNICAL DATA

Property	Test Method	220	320	460	680	1000	1500
SAE Grade	SAE J306	80W-110	85W-140	85W-190	85W-250	250	250
ISO Grade	ISO 3448	220	320	460	680	1000	1500
AGMA Grade	--	5EP	6EP	7EP	8EP	8A	--
Viscosity @ 40°C, cSt	ASTM D445	220	320	460	680	1000	1500
Viscosity @ 100°C, cSt	ASTM D445	24.8	32.4	41.1	53.8	68.7	91.4
Viscosity Index	ASTM D2270	140	141	138	137	135	137
Specific Gravity, @ 60/60°F	ASTM D4052	0.874	0.881	0.883	0.886	0.887	0.891
Flash Point, °F/°C	ASTM D92	230 (446)	233 (452)	233 (452)	224 (436)	223 (434)	230 (446)
Pour Point, °F/°C	ASTM D97	-39 (-38)	-39 (-38)	-39 (-38)	-36 (-33)	-27 (-17)	-27 (-17)
Cu Corrosion, 3hr @ 100°C	ASTM D130	1B	1B	1B	1B	1B	1B
Rust Preventing, Fresh Water	ASTM D665A	PASS	PASS	PASS	PASS	PASS	PASS
Rust Preventing, Salt Water	ASTM D665B	PASS	PASS	PASS	PASS	PASS	PASS
Demulsibility, @180°F	ASTM D1401	42/37/1 (10)	40/40/0 (10)	41/38/1 (10)	40/39/1 (10)	42/37/1 (15)	43/36/1 (15)
Foam Test, Seq.II	ASTM D892	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
4-Ball EP, Load Wear Index	ASTM D2783	64	64	64	64	64	64
4-Ball EP, Weld Load, kg	ASTM D2783	315	315	315	315	315	315
Timken OK Load	ASTM D2782	>90	>90	>90	>90	>90	>90
FZG Scuffing Load, A/8 3/90	DIN 51354	>13	>13	>13	>13	>13	>13

5/21/2021

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