

SYNERGY WORM GEAR

HIGH-PERFORMANCE SEVERE SERVICE WORM DRIVE GEAR OIL

Synergy Worm Gear Oil contains slippery synthetic molecules plus special anti-wear additives to provide the lubricity and oiliness properties necessary to excel in worm gear lubrication. Both oils utilize a dense, high molecular weight, synthetic cushioning additive that protects against fatigue failure from sudden shock loads. Royal Purple's worm gear oils are noncorrosive to both ferrous and nonferrous metals. (Note: Worm gear manufacturers state that Sulfur-Phosphorous EP gear oils can cause rapid deterioration of bronze worm gears and should not be used). Their excellent oxidation stability and water separating properties extend oil drain intervals and prevent the formation of sludge that frequently occurs in wet gear boxes.

Synthetic oils enable Royal Purple to make superior worm gear lubricants, but it is Royal Purple's advanced

DynaGlyde additive technology that gives Royal Purple's EP worm gear lubricants their amazing performance advantages. DynaGlyde additive technology is truly beyond synthetic. DynaGlyde additive technology forms a tough EP lubricating film that is noncorrosive to both ferrous and nonferrous worm gears. It provides maximum protection for heavily loaded, sliding surfaces typically encountered in worm gear service. It provides extra protection for worm gears operating at slow speeds and under shock load conditions as well. DynaGlyde 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.

Synergy Worm Gear Oil is Textron / Cone drive approved.

PERFORMANCE ADVANTAGES

EXCELLENT WEAR PROTECTION - DynaGlyde® additive technology and superior anti-wear chemistry 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 corrosion of ferrous and non-ferrous (yellow metal) components

ENHANCED OXIDATION & THERMAL

STABILITY - Resists 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 | 680 | 1000 |
|------------------------------|-------------|--------------|--------------|
| SAE Grade | SAE J306 | 250 | 250 |
| ISO Grade | ISO 3448 | 680 | 1000 |
| AGMA Grade | | 8 | 8A |
| Viscosity @ 40°C, cSt | ASTM D445 | 680 | 1000 |
| Viscosity @ 100°C, cSt | ASTM D445 | 46.2 | 61.6 |
| Viscosity Index | ASTM D2270 | 116 | 120 |
| Specific Gravity, @ 60/60°F | ASTM D4052 | 0.892 | 0.893 |
| Flash Point, °C (°F) | ASTM D92 | 221 (430) | 249 (480) |
| Pour Point, °C (°F) | ASTM D97 | -33 (-27) | -29 (-20) |
| Cu Corrosion, 3hr @ 100°C | ASTM D130 | 1A | 1A |
| Rust Preventing, Fresh Water | ASTM D665A | PASS | PASS |
| Rust Preventing, Salt Water | ASTM D665B | PASS | PASS |
| Demulsibility, @180°F | ASTM D1401 | 41/38/1 (15) | 42/36/2 (15) |