

Beyond Synthetic™

Synway® is an ultra-tough, tenacious lubricant designed to effectively lubricate machine tool slides and ways. Synway® allows for smooth, uniform, chatter-free motion and precision control — even at low table speeds. Its excellent demulsibility properties plus its tacky, adhesive nature make it highly resistant to wash-off or dilution by water or coolants.

Synway® is formulated with Royal Purple's proprietary EP Synslide® additive technology, which provides a super-tough film on all metal surfaces. This film greatly resists being squeezed from pressure areas, virtually eliminating metal-to-metal contact under even the most severe loads. Synslide® additive technology displaces water on metal surfaces while providing excellent corrosion protection.

Performance Advantages:

- High Film Strength
- Smoother Machine Operation
- Excellent Corrosion Protection
- Excellent Wash-out Resistance

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.

| Typical Properties* | ISO Grade | | | |
|-------------------------|-----------|-------|-------|-------|
| | 32 | 68 | 100 | 220 |
| Viscosity | | | | |
| cSt @ 40°C | 32 | 68 | 100 | 220 |
| cSt @ 100°C | 5.5 | 9.4 | 11.1 | 18.2 |
| SSU @ 100°F | 165 | 351 | 522 | 1167 |
| SSU @ 210°F | 45 | 58 | 64 | 93 |
| Viscosity Index | 106 | 117 | 95 | 91 |
| Flash °F | 400 | 415 | 370 | 370 |
| Specific Gravity @ 60°F | 0.866 | 0.870 | 0.883 | 0.883 |
| Corrosion Test | | | | |
| Copper | Pass | Pass | Pass | Pass |
| Bronze | Pass | Pass | Pass | Pass |
| Rust Test | | | | |
| Fresh Water | Pass | Pass | Pass | Pass |
| Salt Water | Pass | Pass | Pass | Pass |
| Foam Test | Pass | Pass | Pass | Pass |
| Timken OK Load, lbs. | 100+ | 100+ | 100+ | 100+ |
| 4-Ball E.P. Test | | | | |
| Weld Load, kg. | 400 | 400 | 400 | 400 |

*Properties are typical and may vary