





Compounded Gear Oil

Compounded Gear Oil is a high-quality, compounded lubricant developed for the lubrication of industrial and automotive worm gear drives operating at moderate to high temperatures, and for the lubrication of steam engine cylinders and valves.

Compounded Gear Oil is formulated with heavy paraffinic base oils compounded with acidless tallow (fatty oil). It has high film strength and excellent oiliness characteristics for effective lubrication of worm gears. It emulsifies with water to maintain excellent lubricity in the presence of steam and moisture to protect and lubricate cylinder and valve surfaces in steam engines.

Applications

- Industrial worm gear drives made with non-ferrous alloys (bronze-on-steel)
- Differentials on antique automobiles that require a high-viscosity, compounded gear oil
- Steam engine cylinders and valves
- · Bearings on steam-heated calender or mixer rolls
- · Screw-down bolts and nuts on aluminum and steel rolling mills
- Heavily loaded, low-speed bearings subject to moisture contamination
- Cylinders of gas compressors handling wet natural gas
- Applications where an SAE 140, SAE 190 or SAE 250, API GL-2 gear oil is specified

Features/Benefits

- Excellent lubricity for protection of sliding surfaces against scuffing
- High film strength
- Emulsifies with water to resist washing
- · Good oxidation resistance and thermal stability
- Protects against rust and corrosion
- · Non-corrosive to bronze or brass

Compounded Worm Gear & Steam Cylinder Lubricant

CONTACT INFORMATION

Phillips66 Lubricants.com

U.S. Customer Service:

1-800-368-7128

Technical Hotline: **1-877-445-9198**

International Customer Service: 1-832-765-2500

E-mail address: lubricants@ p66.com







Compounded Gear Oil

| Typical Properties | | | |
|----------------------------------|-------------|-------------|-------------|
| ISO Grade | 460 | 680 | 1000 |
| AGMA Grade | 7 Comp | 8 Comp | 8A Comp |
| SAE Grade | 140 | 190 | 250 |
| Specific Gravity @ 60°F | 0.894 | 0.909 | 0.924 |
| Density, lbs/gal @ 60°F | 7.45 | 7.57 | 7.69 |
| Color, ASTM D1500 | L 7.0 | 8.0 | 8.0 |
| Flash Point,°C (°F) | >300 (>572) | >300 (>572) | >300 (>572) |
| Pour Point,°C (°F) | -8 (18) | -5 (23) | 0 (32) |
| Viscosity, | | | |
| cSt @ 40°C | 460 | 680 | 1,000 |
| cSt @ 100°C | 31.0 | 37.0 | 45.0 |
| SUS @ 100°F | 2,463 | 3,687 | 5,481 |
| SUS @ 210°F | 152 | 181 | 219 |
| Viscosity Index | 97 | 89 | 84 |
| Acid Number, ASTM D974, mg KOH/g | 0.20 | 0.20 | 0.20 |
| Copper Corrosion, ASTM D130 | 1a | 1a | 1a |
| Rust Test, ASTM D665 A&B | Pass | Pass | Pass |

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via http://w3apps.phillips66.com/NetMSDS.