



## Pro Performance Premium EP Gear Oil

**Pro Performance Premium EP Gear Oils** are a series of premium extreme pressure industrial gear lubricants formulated to provide excellent performance on enclosed gears of all types. They are blended with selected grades of naturally high viscosity index, thermally stable, paraffinic base stocks and fortified with a carefully selected additive system designed to give high levels of protection against gear and bearing wear, rust, oxidation and hydrolytic decomposition meeting or exceeding the following specifications: U.S. Steel 224, AGMA 9005-D94, Cincinnati Milacron.

**Pro Performance Premium EP Gear Oils** are recommended for use in industrial applications where an EP Gear Oil is required. They are non-corrosive to gear and bearing materials such as steel, copper, brass, bronze, Babbitt or cadmium-nickel. May be used in worm gears unless OEM prohibits use of EP additives.

**Pro Performance Premium EP Gear Oils** excel in the lubrication of heavily loaded enclosed gear drives and reducers under conditions such as extreme and shock loads. They are especially effective in the lubrication of worm, spiral bevel, helical, spur and herringbone gears. Other applications include the lubrication of chain drives, sprockets, plain and anti-friction bearings and slide guides.

### Benefits

- Extreme pressure properties to minimize wear
- Resistance to foaming
- Oxidation and thermal stability for long life
- Excellent rust and corrosion protection
- Recommended for worm gears and general circulating systems



***RAINBO OIL COMPANY.***  
*Delivering Performance Every Day*

**1-800-942-4425**  
***www.rainbolubes.com***



## Pro Performance Premium EP Gear Oil

### Typical Characteristics

ISO VG	<b>68</b>	<b>100</b>	<b>150</b>	<b>220</b>	<b>320</b>	<b>460</b>
AGMA-EP	2	3	4	5	6	7
API Gravity	29.5	29	29	28	26	26.5
Pounds per gallon	7.318	7.341	7.341	7.387	7.481	7.458
Pour point, °F	-20	-5	10	15	15	15
Viscosity						
40°C, cSt	68	100	150	220	320	460
100°C, cSt	8.7	11.4	15	19.4	25	29.2
100 °F, SUS	335	500	760	1100	1600	2300
210 °F, SUS	56	65	80	100	124	143
Viscosity Index	100	100	100	100	95	90
FZG	13	13	13	13	13	13
Timken OK Load, lbs.	70	70	70	70	70	70



**RAINBO OIL COMPANY.**  
*Delivering Performance Every Day*

**1-800-942-4425**  
[www.rainbolubes.com](http://www.rainbolubes.com)



## Pro Performance Premium (LS) Gear Oil

**DESCRIPTION:** Pro Performance Premium (LS) Gear Oil is a multipurpose, “limited slip” automotive gear lubricant. Selected additives impart extreme pressure properties which protect automotive gears operated under the most severe service conditions encountered in passenger cars, trucks, farm tractors, earthmoving, construction and other heavy-duty equipment. These additives impart the antiweld, antiscuff and antiwear properties which are necessary in heavy-duty applications. The friction modifier meets the requirements of “positive traction” or “limited slip” type differentials.

**QUALITIES:** Pro Performance Premium (LS) Gear Oil is blended to meet the multigrade viscosity requirements described in SAE Standard J306. This gear lubricant is formulated with high VI, refined base oils and thus does not require viscosity improver to meet multigrade viscometric properties. Because this lubricant does not contain VI improver, it will maintain its viscometric properties throughout its useful life and will not lose viscosity through shear.

Equipment manufacturers’ recommendations should be followed when the gear lubricant is subject to high ambient temperatures. While some gearsets are designed for year-round operation using an SAE 80W-90, others may require SAE 85W-140 for high ambient temperature operations.

Pro Performance Premium (LS) Gear Oil is designated for the highest severity of gear service, API Service Classification GL-5. Pro Performance Premium (LS) Gear Oil is on Mack Truck’s list of approved GO-H lubricants.

**APPLICATIONS:** Pro Performance Premium (LS) Gear Oil is recommended for use where “multipurpose” gear oil or one suitable for API Service GL-5 is required.

Pro Performance Premium (LS) is for use in differentials of passenger cars and light trucks. Premium (LS) is also for use in limited slip differentials known as Sure-grip<sup>®</sup>, Posi-trac<sup>®</sup>, Trac-lock<sup>®</sup>, etc., for complete fill or for top-off.

Pro Performance Premium (LS) is also for service in transmissions, differentials, final drives and other gearcases of trucks, buses and farm tractors where extreme pressure, hypoid or multipurpose gear oils are specified by the equipment manufacturer, including differentials.



**RAINBO OIL COMPANY.**  
*Delivering Performance Every Day*

**1-800-942-4425**  
**[www.rainbolubes.com](http://www.rainbolubes.com)**



## Pro Performance Premium (LS) Gear Oil

### TYPICAL PROPERTIES:

#### PRO PERFORMANCE PREMIUM (LS) GEAR OIL

---

<b>SAE Grade</b>	<b>80W-90</b>
Material Code	631330001
SAE Grade	80W-90
Gravity, ASTM D4052, °API	27.4
Specific Gravity	0.89
Density, lb/gal at 60°F	7.4
Flash Point, COC, ASTM D92, °F (°C)	430 (221)
Viscosity, ASTM D445, cSt at 40°C	142
cSt at 100°C	14.2
ASTM D2161, SUS at 100°F	721
SUS at 210°F	76
ASTM D2983, cP at -26°C	125,000
Viscosity Index, ASTM D2270	97
Pour Point, ASTM D97 <sup>(1)</sup> , °F (°C)	-27 (-33)
Channel Point, °F (°C), Max.	-31 (-35)
Foam Test, ASTM D892	Pass

Notes: (1) Method 3456 of Federal Test Method Standard No. 791

---

All registered trademarks or trademarks are the property of their respective owners.



***RAINBO OIL COMPANY.***  
*Delivering Performance Every Day*

**1-800-942-4425**  
**[www.rainbolubes.com](http://www.rainbolubes.com)**