

TECHNICAL DATA SHEET



BIG 7 GEAR BOX LUBRICANT

BIG 7 Gear Box Lubricant is an extreme pressure, multi-purpose oil available in weights SAE 80W/90 and 85W/140. It contains selected and refined base oils and modern additives with special polymers. This combination enables

- Exceptional resistance to oxidation
- Highest natural Viscosity Index
- Tough film strength to keep metal surfaces separated
- Inherent moisture resistance

BIG 7 has excellent adhesive qualities which give the lubricant the ability to cling tenaciously to metal surfaces and follow the gears instantly at start-up to provide immediate protection.

BIG 7's high quality is enhanced by a sulfur/phosphorous additive that increases its load carrying properties to give gears additional protection. The maximum level of sulfur/phosphorous ("SP" type) EP additive provides superior anti-wear and anti-scuff lubrication even under the most severe service conditions.

Big 7 has a powerful additive package for maximum rust, corrosion and oxidation resistance. An anti-foam agent breaks entrapped air bubbles as they form, keeping operating temperatures low with less pressure buildup, thus enabling seals to remain pliable and last longer.

Big 7's blend provides outstanding performance in automobiles, light & heavy-duty trucks, farm and construction equipment as well as industrial gear units.

Applications:

- All types of enclosed gears - - spur, worm, hypoid and their variations.
- Great for differentials, mechanical transmissions, steering gears, speed reducers, gear reducers, helical gears, spiral-bevel, final drives, and industrial gears.
- Recommended for automotive axles requiring a Hypoid EP lube including break-in, competition service, drain and refill, "limited slip" type axles and add-to or make up.
- Gear boxes in steel mills, paper mills and other industries where water cooling or water processing is needed

CHEM AND LUBE

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Benefits/ Advantages:

- Multiple viscosity grades with extra high viscosity index span
- Widest temperature range for all-season use and for different climates
- Maximum level of sulphur/ phosphorus EP additive - - protects against scoring, scuffing and welding
- Prohibits rust, corrosion and oxidation
- Will not emulsify with water

Performance Characteristics:

- U.S. Government Military Specifications:
 - MIL-L-2105B and MIL-L-2105C API
 - GL-3 Mild EP
 - GL-4 Hypoid EP
 - GL-5 Break-In Hypoid EP
 - GL-6 High Performance Hypoid EP
- Limited Slip Axle Lubrication
- CRC-L-37 and CRC-L-42 Axle Tests
- International Harvester 135 EP Gear Lube

<u>PROPERTY</u>	<u>80W/ 90</u>	<u>85W/ 140</u>
Color	Dark Red	Dark Red
Texture	Tacky	Tacky
cSt @ 40° C	180	420
cSt @ 100° C	13.5 - 19.0	24.0 - 32.5
Viscosity Index (min.)	90	90
Flash Point, °C/°F (typ.)	204/400	221/430
API Gravity, (typ.)	26.2	24.7
Specific Gravity (typ.)	0.8973	0.9050
Lbs. Gal. (typ.)	7.472	7.544
Timken OK Load, lbs.	70	70
Four Ball EP, Weld Load, kg	400	400
LWI, kg	85	85
Four Ball Wear Scar Dia., mm	0.30	0.30
Pour Point	0°F	20°F

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