



LUBRICANTS

Multiplex® FS ELL

Phillips 66® Multiplex FS ELL is a premium quality, synthetic, semi-fluid extreme pressure (EP), lithium complex grease specially developed for the lubrication of wheel bearings on non-driven trailer axles equipped with oil seals. It is formulated to help optimize service intervals and reduce operating costs by providing effective lubrication and cooling of wheel bearings exposed to prolonged high operating temperatures. It is also recommended for use in industrial gearboxes operating at high temperatures where oil leakage is a problem and conventional semi-fluid greases do not provide adequate service life.

Multiplex FS ELL is manufactured with a high viscosity synthetic polyalphaolefin (PAO) base oil and a lithium complex soap thickener. It is fortified with EP and antiwear additives plus rust and oxidation inhibitors to provide excellent wear protection, corrosion resistance and long service life. It has outstanding thermal stability at high temperatures and outstanding pumpability at low temperatures for use over a wide temperature range.

Applications

- Wheel bearings on non-driven trailer axles equipped with oil seals⁽¹⁾
- Plain and rolling element bearings operating at extreme temperatures
- Conveyors
- Centralized lube systems
- Industrial gearboxes where oil leakage is a problem

⁽¹⁾ **Note:** Multiplex® FS ELL is formulated to provide long service life, typically coinciding with scheduled brake service. However, we recommend that you refer to the Preventive Maintenance Inspection (PMI) Guidelines published by the Technology and Maintenance Council (TMC) of the American Trucking Association for relubrication practices. This document provides the following general guidelines for relubrication of wheel bearings in over-the-road trucks:

"A" PM – 60 days or 25,000 miles

"B" PM – 180 days or 50,000 miles

"C" PM – 360 days or 100,000 miles

Features/Benefits

- Outstanding oxidation resistance and thermal stability at high temperatures
- Outstanding pumpability at very low temperatures
- Excellent wear protection
- Protects against rust and corrosion
- Resists water washout
- Excellent seal compatibility
- Formulated for extended service life

**Premium
Synthetic
Semi-fluid, Non-
Driven Trailer
Axle Wheel
Bearings
Extreme Pressure
Lithium Complex
Grease**

**KEEPING THE
WORLD
RUNNING
SMOOTHLY.**





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Typical Properties		
NLGI Grade		00
Thickener Type		Lithium Complex
Color		Green
Texture		Smooth
Density, lbs/gal		7.24
Viscosity, Kinematic	ASTM D445	
Viscosity @ 40°C, cSt		474
Viscosity @ 100°C, cSt		46
Penetration, Worked (60 strokes)	ASTM D217	400-430
Oxidation Stability, 100 Hours, psi (kPa)	ASTM D942	3 (20.7)
Four-Ball Wear Scar, mm	ASTM D2266	0.35
Four-Ball EP, Weld Load, Kgf	ASTM D2596	315
Timken OK Load, lbs	ASTM D2509	55
Corrosion Prevention	ASTM D1743	Pass
Copper Corrosion	ASTM D4048	1a

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/SDS>.

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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