



Dynalife® L-EP

Phillips 66® Dynalife L-EP is a multipurpose, extreme pressure (EP) lithium grease developed for use in a wide variety of industrial and automotive applications. It is a versatile, general-purpose grease recommended for use in applications where operating temperatures and loads are moderate. It is available in six grades to cover a wide range of applications.

Dynalife L-EP is manufactured with high-quality base oils, a special polymer and lithium-12-hydroxystearate soap thickener. It is fortified with extreme-pressure and antiwear additives plus rust and oxidation inhibitors. It has good load-carrying capacity for protection against wear, good oxidation resistance for long service life, protects metal parts against rust and corrosion, and is resistant to water washout. It has good resistance to structural breakdown and will not soften excessively during high-speed operation in rolling-element bearings. It forms a good seal to help minimize bearing contamination.

Applications

- Plain and rolling-element bearings in compressors, fans, centrifugal pumps and other industrial equipment where operating temperatures and loads are moderate
- Chassis parts, universal joints and water pumps on passenger cars, light trucks and other mobile equipment
- Track rollers, commercial lawn mowers, crushers and vibrating screens (semi-fluid grades)
- Underground mining machinery and other enclosed gearboxes where oil leakage is a problem (semi-fluid grades)
- Wheel bearings of passenger cars equipped with drum brakes
- Centralized grease lubrication systems
- General-purpose shop/industrial grease

Dynalife L-EP No. 1 is approved against the following OEM specification:

- Fives Cincinnati P-72

Features/Benefits

- Multipurpose grease for use in a wide variety of applications
- Good extreme-pressure and antiwear properties
- Good shear stability
- Good oxidation resistance and thermal stability
- Protects against rust and corrosion
- Resists water washout
- Good low-temperature pumpability
- Suitable for use in centralized lube systems

**Multipurpose
Extreme
Pressure
Lithium Grease**

**KEEPING THE
WORLD
RUNNING
SMOOTHLY.**





Dynalife® L-EP

Typical Properties						
NLGI Grade	000	00	0	1	2	3
Thickener	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Color	Amber	Amber	Amber	Amber	Amber	Amber
Dropping Point						
°C	---	---	172	177	177	177
°F	---	---	342	350	350	350
Density, lbs/gal	7.44	7.44	7.44	7.44	7.44	7.44
Penetration, ASTM D217						
Worked 60 strokes	445-475	400-430	355-385	310-340	265-295	220-250
Texture	Semi-fluid	Semi-fluid	Smooth	Smooth	Smooth	Smooth
Four-Ball EP, ASTM D2596, Weld Load, kgf	250	250	250	250	250	250
Four-Ball Wear, ASTM D2266						
Scar Diameter, mm	0.45	0.45	0.45	0.45	0.45	0.45
Oxidation Stability, ASTM D942, 100 hours						
Pressure Drop, psi (kPa)	5(35)	5(35)	5(35)	5(35)	5(35)	5(35)
Rust Prevention, ASTM D1743	Pass	Pass	Pass	Pass	Pass	Pass
Timken OK Load, ASTM D2509, lb	40	40	40	40	40	40
Base Oil Properties:						
Viscosity						
cSt @ 40°C	175	175	175	175	175	175
cSt @ 100°C	13.0	13.0	13.0	13.0	13.0	13.0
SUS @ 100°F	940	940	940	940	940	940
SUS @ 210°F	72	72	72	72	72	72
Viscosity Index	52	52	52	52	52	52
Usable Temperature Range						
°C	-34 to 65	-34 to 65	-29 to 107	-18 to 121	-18 to 121	-12 to 121
°F	-30 to 150	-30 to 150	-20 to 225	0 to 250	0 to 250	10 to 250

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/EN/products/Pages/MSDS.aspx>.

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.