



Unoba® EP

Phillips 66® Unoba EP is a multipurpose, extreme-pressure lithium grease developed for use in a wide variety of industrial and automotive applications. It is a versatile, general-purpose grease for use in applications where operating temperatures and loads are moderate.

Unoba EP is manufactured with high-quality base oils 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.

Unoba EP is available in multiple grades for use in a wide variety of applications. It is an excellent grease for use in centralized lube systems. The semi-fluid grades may be used in enclosed industrial gearboxes where oil leakage is a problem.

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)
- Enclosed gear drives on industrial, mining and mobile equipment 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

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
- Suitable for use in centralized lube systems

**Multipurpose
Extreme-
Pressure
Lithium Grease**

**KEEPING THE
WORLD
RUNNING
SMOOTHLY.**





Unoba® EP

Typical Properties				
NLGI Grade	00	0	1	2
Thickener	Lithium	Lithium	Lithium	Lithium
Color	Green	Green	Green	Green
Dropping Point, °C (°F)	-	172 (342)	177 (350)	177 (350)
Density, lbs/gal	7.36	7.39	7.42	7.47
Penetration, Worked (60 strokes), ASTM D217	400-430	355-385	310-340	265-295
Texture	Semi-fluid	Smooth	Smooth	Smooth
Four-Ball EP, ASTM 2596, Weld Load, kgf	315	315	315	315
Four-Ball Wear, ASTM D2266, Scar Diameter, mm	0.45	0.45	0.45	0.45
Oxidation Stability, ASTM D942, 100 hrs				
Pressure Drop, psi (kPa)	5 (35)	5 (35)	5 (35)	5 (35)
Rust Prevention, ASTM D1743	Pass	Pass	Pass	Pass
Timken OK Load, ASTM D2509, lb	50	50	50	50
Base Oil Properties:				
Viscosity	190	190	190	190
cSt @ 40°C	175	142	142	142
cSt @ 100°C	13.5	13.0	13.0	13.0
SUS @ 100°F	935	750	750	750
SUS @ 210°F	74	72	72	72
Viscosity Index	61	81	81	81
Usable Temperature Range				
°C	-34 to 65	-20 to 107	-18 to 121	-18 to 121
°F	-30 to 150	-5 to 225	0 to 250	0 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>.

