

Bio-High Temp™ 180 E.P. Grease

(NLGI #2)

Biobased, High-Performance Lithium Complex Grease for Extreme Conditions

Bio-High Temp™ 180 E.P. Grease is a premium, ultimately biodegradable, lithium complex grease formulated for high temperature and extreme pressure (EP) applications. Engineered with synthetic technology, it delivers outstanding shear stability, corrosion resistance, and water washout performance. This multipurpose grease meets and exceeds ASTM D-4950 GC/LB classification, making it ideal for marine, industrial, transportation, agricultural, and construction equipment, especially in applications impacted by EPA VGP 2013 requirements.

Benefits

- Readily biodegradable, non-toxic, not bioaccumulative
- Exceptional high and low temperature performance
- Highly resistant to water, oxidation, rust, and thermal degradation
- Extreme pressure protection using environmentally friendly E.P. additives
- Contains no chlorine, barium, lead, or other harmful metals
- Stable under high shear and extended service intervals
- Compliant with EPA VGP 2013 as an Environmentally Acceptable Lubricant (EAL)
- Exceeds LC-50 / EC-50 >1000 ppm toxicity criteria (US EPA, US Fish & Wildlife)

Application / New Filling

- Ideal for:
 - Marine shipboard equipment
 - Chassis lubrication and wheel bearings
 - Electric motors, conveyors, pumps, journal and antifriction bearings
 - Construction, mining, transportation, agricultural, and forestry equipment
- Apply by standard grease gun or automated delivery systems as specified

Specifications and Approvals

- ASTM D-4950 GC/LB certified
- OECD 301 Readily Biodegradable
- ASTM D 5864 Ultimately Biodegradable
- VGP 2013 compliant (Environmentally Acceptable Lubricant)
- Manufactured using patented Stabilized™ HOBS technology

Typical Specifications:

Base Oil- Viscosity @ 40°C cSt	179
Viscosity @ 100°C cSt	26
Viscosity Index	180
Pour Point	-36°C
Color	Green
Texture	Smooth, Tacky
Drop Point F (C) D-566	>590°F (>310°C)
Bomb Oxidation, 100 h. D-942	5.0 psi
4-Ball Wear D-2266	0.428 mm
4-Ball EP D-2596	Weld 315, LWI 44 0.04
Low Temp Performance, Torque at -40 C D-4693	Max, 6.39 at 60 sec
High Temperature Life D-3527	100 hrs.
Leakage Tendencies D-4290	7.4 g
Timken OK Load D-2509	60 lbs
Pen, @ 25°C Unwkd D-217	274 mm/10
Pen, Wkd 60 strokes	284 mm/10
Pen, Wkd 10,000 strokes change from 60 strokes	280 mm/10 (-4)
Pen, Wkd 100,000 strokes change from 60 strokes	293 mm/10
Roll Stability D-1831	-4.00%
Cone Bleed D-6184	4.94% Loss
Water Washout D-1264 (Avg.)	5.00% Loss
Evaporation D-6184	0.52% Loss
Oil Separation D-1742	1.1% Loss Pass
Rust Test D-1743	Pass
Copper Corrosion D-130	1A

Ultimate Biodegradation (Pw1) within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants

*STABILIZED by Renewable Lubricants is RLI's trademark on their proprietary and patented anti-oxidant, anti-wear, and cold flow technology. This Stabilized technology allows the HOBS to perform as a high performance formula in high and low temperature applications, reducing oil thickening and deposits. Patented Product: US Patent 6,383,992, US Patent 6,534,454 with additional Pending and Foreign Patents TMTrademark of Renewable Lubricants, Inc. Copyright 1999 Renewable Lubricants, Inc.

<i>Availability F.O.B.: Manufacturer</i>	<i>14 oz. Tube</i>	<i>35 lb. Pail</i>	<i>120 lb. Keg</i>	<i>12-14oz. Tubes</i>	<i>400 lb Drum</i>
RLI Product Item #	87611	87614	87615	87611P	87616
NSN: RLI Cage Code 1RZP5	9150-01-686-4300	9150-01-686-4280	9150-01-686-4229	9150-01-686-5196	9150-01-686-5182