



Renewable Lubricants, Inc.

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Bio-Food Grade™ E.P. Grease

NLGI # 0, # 1, #2 (High Temperature)



H1



"Biobased Lubricants that Perform Like Synthetics"

Bio-Food Grade™¹ E.P. Greases are high temperature Biobased greases with excellent E.P. and Antiwear performance. The super high viscosity index of the Stabilized* HOBS naturally improves the thermal shear stability and load capacity. They were engineered specifically for food processing and packaging machinery. Bio-Food Grade™ E.P. Greases are rust and oxidation inhibited formulas that are very resistant to water and maybe used as open or enclosed gear greases. These products provide superior high temperature performance and good adhesion/cohesion properties. They have a neutral odor and are non-staining. The # 1 & # 0 are Supreme High Temperature Food Grade Grease with improved cold temperature mobility over Bio-Food Grade™ E.P. NLGI #2. Bio Food Grade™ E.P. Grease contains an optimized blend of preservatives. The preservatives exhibit broad spectrum antimicrobial activity against Gram positive and Gram negative bacteria, yeasts and mold.

| NSF Registration: | NLGI # 1 140452 H1 | NLGI # 0 140451 H1 | NLGI # 2 140453 H1 |
|---|-------------------------------|-------------------------------|-------------------------------|
| Typical Specifications: | | | |
| Base Oil -Viscosity @ 40°C cSt ASTM D 445 | 42.10 | 42.10 | 42.10 |
| Viscosity @ 100°C cSt ASTM D 445 | 8.69 | 8.69 | 8.69 |
| Viscosity Index ASTM D 2270 | 191 | 191 | 191 |
| Pour Point ASTM D 97 | -30°C | -30°C | -30°C |
| Color | White | White | White |
| Thickener | Alum Complex | Alum Complex | Alum Complex |
| Drop Point ASTM D 566 | 500 ⁰ F (260° C) | NA | 520 ⁰ F (271° C) |
| Water Washout @ 79 ⁰ C ASTM D 1264 | 3.4 % Loss | NA | 2.0% Loss |
| Mobility Test-US Steel Method | | | |
| 40°C | | | 113.00 g/min |
| 0°C | | | 16.98 g/min |
| -20°C | | | 1.15g/min |
| 4-Ball Wear ASTM D 2266 | 0.46 mm | 0.46 mm | 0.43 mm |
| 4-Ball EP ASTM D 2596 | Weld 250 | Weld 250 | Weld 250 |
| Timken OK Load ASTM D 2509. | 40 lbs. | 40 lbs. | 40 lbs. |
| Pen, Unwkd ASTM D 217 | 325 mm/10 | 380 mm/10 | 286 mm/10 |
| Pen, Wkd 60 ASTM D 217 | 320 mm/10 | 390 mm/10 | 295 mm/10 |
| Pen, Wkd 10,000 | 340 mm/10 | 390 mm/10 | 304 mm/10 |
| Pen, Wkd 100,000 | 340 mm/10 | 390 mm/10 | 293 mm/10 |
| ASTM D 217 strokes change from 60 strokes | | | |
| Roll Stability ASTM D 1831 | -3.5% | 385% | +3.6% |
| Cone Bleed @ 100 ⁰ C ASTM D 6184 | 3.7 % Loss | NA | 2.2 % Loss |
| Copper Corrosion ASTM D 130 | 1A | 1A | 1A |
| Oil Separation ASTM D 1742 | 4.6 % Loss | NA | 1.1 % Loss |
| Rust Test ASTM D 1743 | Pass | Pass | Pass |
| Bomb Oxidation, 100 h. ASTM D 942 | 5.0 psi | 5.0 psi | 5.0 psi |
| RLI Product Item # | 87514 | 87534 | 87502 |

STABILIZED by Renewable Lubricants* is RLI's trademark on their proprietary and patented technology. High Oleic Base Stock (HOBS) are agricultural vegetable oils. This Stabilized technology allows the HOBS to perform as a high performance formula in high and low temperature applications, reducing oil thickening and deposits.

¹This product is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas. Such compounds may be used on food processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is a potential exposure of the lubricated part to food.

Patented Product with Pending and Foreign Patents

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Availability F.O.B. :Manufacturer 14 oz. Tubes 35 lb Pails 120 lb Kegs 400 lb Drums
(8,000 Pound Minimum Batches)