



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 may be 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. Meets and exceeds outdated military specification for Food Grade Grease DOD-G-24650. Contains no animal byproducts and are manufactured under kosher supervision.

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° F (260° C)	NA	527° F (275° C)
Water Washout @ 79° C ASTM D 1264	3.4 % Loss	NA	2.0% Loss
Mobility Test-US Steel Method			
40°C			217.00 g/min
0°C			13 g/min
-20°C			2.6g/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 315
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%	+3.0%
Cone Bleed @ 100° C ASTM D 6184	3.7 % Loss	NA	1.9 % Loss
Copper Corrosion ASTM D 130	1A	1A	1B
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	3.0 psi
RLI Product Item #	87510	87520	87500

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. Tube 35 lb Pail 120 lb Keg 400 lb Drum
(8,000 Pound Minimum Batches)**