Renewable Lubricants, Inc.
476 Griggy Rd., P.O. Box 474
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Bio-Food Grade™ E.P. Grease

(NLGI #0, #1, #2)

NSF H1 Registered • Kosher • High Temperature Biobased Grease

Bio-Food Grade™ E.P. Greases are high-temperature, biobased greases offering excellent extreme pressure (E.P.) and antiwear performance. The super-high viscosity index of the **Stabilized™ HOBS** base oils naturally enhances thermal shear stability and load-carrying capacity. Engineered specifically for food processing and packaging machinery, Bio-Food Grade™ E.P. Greases feature rust and oxidation inhibitors, are highly water-resistant, and can be used in both open and enclosed gear applications. These products deliver superior high-temperature performance along with strong adhesion and cohesion properties. They have a neutral odor and are non-staining. NLGI #1 and #0 grades are **Supreme High Temperature Food Grade Greases** that offer improved cold-temperature mobility over Bio-Food Grade™ E.P. NLGI #2. The formula includes an optimized blend of preservatives, providing broad-spectrum antimicrobial activity against Gram-positive and Gram-negative bacteria, yeasts, and mold.

Benefits

- NSF H1 registered for incidental food contact
- Excellent high-temperature and extreme pressure performance
- Broad-spectrum antimicrobial preservative
- Superior water resistance, rust and oxidation protection
- Non-staining and neutral odor
- Contains no animal byproducts
- Manufactured under kosher supervision
- Meets and exceeds DOD-G-24650 specification
- STABILIZED™ proprietary antioxidant and antiwear technology

Application / New Filling

- Suitable for:
  - Food processing and packaging machinery
  - Open and enclosed gear systems
  - Equipment operating under high temperature or humid conditions
    - Choose NLGI #0 or #1 for enhanced cold weather performance
    - For conversions from petroleum-based grease, purge old grease before refilling

F.O.B: Hartville, Ohio
Availability: 1 Gallon, 5 Gallon Pail, Drum, Totes, Bulk

Specifications and Approvals

- NSF H1 Registered:
- NLGI #0 – Reg. No. 140451
- NLGI #1 – Reg. No. 140452
- NLGI #2 – Reg. No. 140453
  - Meets and exceeds DOD-G-24650
  - Patented and patent-pending formulations (RLI proprietary STABILIZED™ tech)
  - Complies with 21 CFR 178.3570 for incidental food contact
- Kosher

	NLGI # 1	NLGI # 0	NLGI # 2
NSF Registration:	**140452 H1**	**140451 H1**	**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	527^0 F (275° C)
Water Washout @ 79^0 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 @ 100^0 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