



# Renewable Lubricants, Inc.

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## **Bio- Food Grade High Temperature E.P. Grease NLGI #2 Plus Synthetic White Graphite (H1)**



*"Biobased Lubricants that Perform Like Synthetics"*

This High Temperature Biobased, Food Grade<sup>1</sup> grease is a state-of-the-art Food Grade<sup>1</sup> product, which is characterized by exceptional mechanical and oxidation stability. The super high viscosity index of the Stabilized\* HOBS naturally improves the thermal shear stability and load capacity. This product is fortified with Food Grade<sup>1</sup> Aw/EP plus 10% synthetic Food Grade<sup>1</sup> white graphite EP that will lubricate at extreme high pressures and temperatures up to and over 1000C This very high load carrying ability, excellent resistance to water, corrosion, and outstanding performance in a wide temperature range, make it a high performance premium EP grease. It contains no heavy metals or other harmful or environmentally undesirable additives, such as chlorine, zinc, phenols, antimony, barium or lead. The biobased oil in this grease is ultimately biodegradable<sup>1</sup> and the extreme pressure performance is supported from Food Grade 10% synthetic white graphite EP and High Temperature aluminum complex thickener. The data below shows that this product is a truly outstanding multipurpose EP grease with excellent high temperature properties and cold temperature mobility. The 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 agricultural equipment in locations in which there is a potential exposure of the lubricated part to food. Easy to view in bearings

**Applications:** Industrial and mining machinery, transportation, agricultural, construction and forestry equipment, paper mills, conveyors, journal and bushing bearings, electric motors, pumps. Food and Marine applications can all benefit from its long-lasting protection. Other applications including: tool joints, open gears, chains, cables, slide ways, fifth wheels, kingpins, chassis, hinge pins, or in slow moving rollers and bearings of high temperature ovens. In addition, This High Temperature Biobased Grease is recommended for high temperature oven chains and rollers where this white graphite film has been known to perform at extreme high temperatures. For kiln support rollers and bearings. This white graphite has shown to provide improved lubrication after black graphite, PTFE, and molybdenum disulfide lose their lubrication ability between 400C and 500C.

<sup>1</sup>Food Grade components in this product are listed in 21 CFR 178.3570, Lubricants for incidental food contact (USDA HX-1, H-1). Full compliance with other applicable restrictions of FDA, USDA, oil spill, and oil pollution prevention statutes is recommended.

### Typical Specifications:

#### Nano Particle White Graphite

Base Oil-	Viscosity @ 40°C cSt	118.93
	Viscosity @ 100°C cSt	19.74
	Viscosity Index	189
	Pour Point	-36°C
Color		White
Texture		Smooth, Mild Tack
Drop Point F (C) D-566		>640 F (>337.8 C)
Bomb Oxidation, 100 h. D-942		5.0 psi
Water Washout D-1264		0.00% Loss
Mobility Test-US Steel Method	40°F	100.64 g/min
	0°F	10.34 g/min
	-20°F	1.96 g/min
4-Ball Wear D-2266		0.428 mm
4-Ball EP D-2596		Weld 400
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
Evaporation D-6184		0.52% Loss
Oil Separation D-1742		0.003% Loss
Rust Test D-1743		Pass
Copper Corrosion D-130		1B

### NLGI 2

**10%**

The advantages are more biodegradable, renewable, low toxicity, no volatile organic compounds (VOCs), safer for the environment, more fire resistant, EPA and ISO 14000 compliant, reduces foreign oil, and helps secure the Economy. OSHA and worker acceptance is high

with biobased products.

STABILIZED by Renewable Lubricants\* is RLI's trademark on their proprietary and patented anti-oxidant, anti-wear, and cold flow technology. High Oleic Base Stock (HOBS) are agricultural biobased oils. This Stabilized technology allows the HOBS to perform as a high performance formula in high and low temperature applications, reducing oil thickening and deposit. Patented Product with Pending and Foreign Patents

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<u>Availability</u>	<u>F.O.B. :Manufacturer</u>	<u>14 oz. Tubes</u>	<u>35 lb Pails</u>	<u>120 lb Kegs</u>	<u>400 lb Drums</u>
<b>Products Item#</b>		<b>87571</b>	<b>8757487575</b>		<b>87576</b>