



Renewable Lubricants, Inc.

476 Griggy Rd., P.O. Box 474

Hartville, Ohio 44632-0474

Voice: 330.877.9982 Fax 330.877.2266

Web: www.renewablelube.com

Bio-Food Grade™ Air Tool Lubricant **(ISO 22 & 32) H1**



"Biobased Lubricants that Perform Like Synthetics"

Bio-Food Grade™ Air Tool Lubricants are biosynthetic food grade² lubricants that contain ingredients which are "Generally Regarded as Safe" (GRAS) for food processing equipment. In addition, they are ultimately biodegradable¹ and designed to directly replace petroleum based air tool oils in many environmentally sensitive areas such as agriculture, marine, forestry, construction, transportation, and industry. These safe biobased products are essentially odorless and tasteless and provide excellent lubrication in all types of air equipment. Because of the super high viscosity index of the HOBS, they perform in multiple air equipment applications. They emulsify water for improved lubricity in moist conditions and provide anti-misting. The natural oily film of the products have shown in laboratory and field tests to out-perform petroleum base oils in terms of natural lubricity.

Bio-Food Grade™ Air Tool Lubricants provide excellent lubrication for both rotary and reciprocating types of air tools, such as chipping hammers, impact wrenches, air motors, grinders, reamers, drills, etc. They can be fed through an airline lubricator or by a squirt can directly into the tool through the quick coupling air connection. They can be very effective on the lift cylinders of can fillers in breweries, bottling plants and canning plants. These products have exceptional benefits over petroleum oils in these applications because there is direct danger of polluting the air, water, soil, or work environment through loss of the lubricant. Contains no animal byproducts and are manufactured under kosher supervision.

- Meet the Environmental Protection Agency (EPA) 2013 Vessel General Permit (VGP) guidelines for ENVIRONMENTALLY ACCEPTED LUBRICANTS (EALs), and should be used where LOW TOXICITY, BIODEGRADABILITY and NON-BIOACCUMULATION properties are required.
- They exceed the acute toxicity (LC-50 / EC-50 >1000 ppm) criteria adopted by the US Fish and Wildlife Service and the US EPA.
- They are ENVIRONMENTALLY RESPONSIBLE lubricants formulated from renewable agricultural biobased resources.
- Earth's environmental future rests in the use of renewable materials.

¹Ultimate Biodegradation (Pw1) within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants

Typical Data

ISO Grade		22	32
Viscosity @40°C., cSt.	ASTM D-445	22.4	29.33
Viscosity @100°C., cSt.	ASTM D-445	4.9	7.34
Viscosity Index	ASTM D-2270	176	203
Flash Point, COC	ASTM D-93	220°C	230°C
Pour Point	ASTM D-5985	-45°C	-30°C
Rust Prevention	ASTM D-665		
Distilled Water		Pass-Clean	Pass-Clean
Synthetic Sea Water		Pass-Clean	Pass-Clean
Foam Sequence I, II, III (10 min)		0 Foam	0 Foam
Copper Corrosion Strip 3hr @ 100 °C	ASTM D-130	1A	1A
RLI Product Item #		87450	87460

² Base oils and additives in this product are listed in 21 CFR 178.3570, Lubricants for incidental food contact (USDA H1). Full compliance with other applicable restrictions of FDA, USDA, oil spill, and oil pollution prevention statutes is recommended.

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 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. Patented Product with Pending and Foreign Patents

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