



Renewable Lubricants, Inc.

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Bio-Mist™ EP Cutting Oil



"Biobased Lubricants that Perform Like Synthetics"

A heavy duty, ultimately biodegradable¹, vegetable based, mist EP cutting oil which provides excellent performance where misting is needed in a wide variety of machining operations on non-ferrous metals, tough ferrous alloys as well as mild steel and cast iron. These operations include: milling, drilling, turning, grinding, broaching, and thread cutting and tapping. Bio-Mist™ EP Cutting Oil does not contain active sulfur, chlorine, zinc, phosphorus, silicon, or heavy metals, and does not produce an abrasive odor and is non-staining. In addition, this oil is particularly useful for machining stainless and hard steel, such as Hastalloy and tool steels.

Performance is enhanced by use of the Stabilized HOBS's, natural ester composition, which provides cutting tool wetting and oiliness; combined with EP and antiwear agents. The super high viscosity index of the Stabilized™ HOBS adds additional cutting qualities to this high performance lubricant.

The advantages are many: biobased, biodegradable, renewable, low toxicity, no hazardous volatile organic compounds (VOC), more fire resistant, safer, EPA and ISO 14000 compliant, reduces foreign oil, and helps secure the American Economy, OSHA and worker acceptance is high with biobased oils.

Bio-Mist™ EP Cutting Oil is a ENVIRONMENTALLY RESPONSIBLE biobased oil that is formulated from renewable agricultural plant resources. We believe Earth's environmental future rests in the use of renewable materials.

Typical Specifications

| | |
|-----------------------------------|-----------------|
| ISO Grade | 32 |
| Specific Gravity @60°F. | 0.90 |
| VISCOSITIES: | |
| @100 °F SUS | 145 |
| @40°C., cSt. | 31.3 |
| @100°C., cSt. | 7.3 |
| Viscosity Index | 211 |
| Flash Point, COC,. | 204 °C (400 °F) |
| Pour Point, °C. | -14 |
| Copper Corrosion ASTM D-130 | 1-B |
| 4-Ball EP ASTM D-2783 | |
| Non-Seizure Load kg | 126 |
| Weld Load kg | 800 |
| Load Wear Index | 152 |
| Rust Prevention ASTM D-665 | No Rust |
| Tapping Test | |
| 304 Stainless Steel, % Efficiency | 125 |
| 1020 HR Steel, % Efficiency | 120 |
| Falex EP Test, (Fail load lbs.) | 4250 |

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.

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

Patented Product: US Patent 6,383,992, US Patent 6,534,454, US Patent 6,624,124, US Patent 6,620,772 with additional Pending and Foreign Patents

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Availability F.O.B. :Hartville, Ohio, USA

RLI Product Item #

5 Gallon Pails Drums Bulk
86734