

Overview ▶ BioLube RDP is a readily biodegradable, heavy duty rock drill lubricant designed to meet the requirements of pneumatic tools, down-hole and surface drilling equipment. It is formulated with high viscosity index natural ester base oil, anti-wear additives, and corrosion protection. The high viscosity index provides superior lubrication in a working hammer. BioLube RDP's natural polarity and tackiness allows the lubricant to adhere to tooling surfaces, further reducing corrosion and wear in the presence of compressed air.



BioLube RDP oil is formulated featuring our proprietary **eSyn™** technology and is available in ISO grades 40, 100, 150, 220 and 320.

Typical Properties ▼

| Property | ASTM Test Method | RDP 40 | RDP 100 | RDP 150 | RDP 220 | RDP 320 |
|-------------------------------------------------------------|------------------|------------|------------|------------|------------|------------|
| Product Code | | BL8103040 | BL8104100 | BL8104150 | BL8104220 | BL8104320 |
| ISO Grade | | 40 | 100 | 150 | 220 | 320 |
| Specific Gravity | ASTM D1298 | 0.91 | 0.91 | 0.91 | 0.92 | 0.92 |
| Viscosity @40°C, cSt | ASTM D445 | 40 | 100 | 150 | 220 | 320 |
| Viscosity @100°C, cSt | ASTM D445 | 8.5 | 18 | 25 | 33 | 45 |
| Viscosity Index (VI) | ASTM D2270 | >200 | >220 | >220 | >220 | >220 |
| Pour Point °F (°C) | ASTM D97 | -22 (-30) | -30 (-34) | -30 (-34) | -30 (-34) | -30 (-34) |
| Flash Point °F (°C) | ASTM D92 | >600 (316) | >600 (316) | >600 (316) | >600 (316) | >600 (316) |
| Timken OK Load, lbs | ASTM D2509 | >60 | >60 | >60 | >60 | >60 |
| Falex EP Fail Load | ASTM D3233 | 3500 | 3500 | 3500 | 3500 | 3500 |
| Copper Corrosion | ASTM D4048 | 1A | 1A | 1A | 1A | 1A |
| Rust Test, A & B | ASTM D665 | Pass | Pass | Pass | Pass | Pass |
| Readily Biodegradable (meaning>60%) | | Pass | Pass | Pass | Pass | Pass |
| Biodegradability | OECD 301B | >75 | >75 | >75 | >75 | >75 |
| Not Bioaccumulative, (Calculated value as per EPA standard) | | Pass | Pass | Pass | Pass | Pass |
| Toxicity (meaning LC50> 1000 mg/L) | | Pass | Pass | Pass | Pass | Pass |
| Tackifier | | Yes | Yes | Yes | Yes | Yes |

Key Attributes / Approvals ▶



To be used in down the hole drilling applications within a variety of industries: oil and gas drilling, mining, water well drilling, geothermal drilling, pile driving, construction, etc. Use in equipment where a release into the environment is possible, or where a leak or spill could reach a waste stream.

- Environmentally Acceptable Lubricant (EAL) as defined by US EPA
- Field proven in the most popular drilling equipment: Atlas Copco, Halco, NUMA, and many others.

See the Safety Data Sheet (SDS) for emergency, proper handling and disposal information. Rev. BLRDP-02182021