

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