

**Overview** ▶ BioBlend PPL is a readily biodegradable lubricant for the plunger packing in positive displacement reciprocating pumps, such as triplex and quintuplex pumps used in oil and gas hydraulic fracturing and cementing operations. It is formulated from renewable bio-based resources and contains no mineral oil or toxic additives, thus reducing environmental impact associated with the handling and use of lubricants in these operations. Additionally, the blend of highly refined natural ester base oil and bio-based polymer in BioBlend PPL reduces friction compared to conventional mineral oil-based lubricants, which translates to less wear and extended packing life.



BioBlend PPL fluids are formulated featuring our proprietary **eSyn™** technology and are available in ISO grades 68 and 100.

## Typical Properties ▼

| PROPERTY                            | ASTM TEST METHOD | PPL 68     | PPL 100    |
|-------------------------------------|------------------|------------|------------|
| Product Code                        |                  | BB820068   | BB8200100  |
| ISO Grade                           |                  | 68         | 100        |
| Specific Gravity                    | D-1298           | 0.91       | 0.91       |
| Viscosity @40°C, cSt                | D-445            | 68         | 100        |
| Viscosity @100°C, cSt               | D-445            | 11.2       | 18.1       |
| Viscosity Index (VI)                | D-2270           | >200       | >220       |
| Pour Point °F (°C)                  | D-97             | -25 (-32)  | -30 (-34)  |
| Flash Point °F (°C)                 | D-92             | >600 (316) | >600 (315) |
| Timken OK Load, lbs.                | D-2509           | >60        | >60        |
| Falex EP Fail Load                  | D-3233           | 3500       | 3500       |
| Copper Corrosion                    | D-4048           | 1A         | 1A         |
| Readily Biodegradable (meaning>60%) |                  | Pass       | Pass       |
| Biodegradability                    | OECD 301B        | >75        | >75        |

## Key Attributes / Approvals ▼



- Helps ensure an effective seal between plunger and packing
- Excellent adhesion and resistant to wash-off
- Reduces friction and wear
- Readily biodegradable with minimal toxicity characteristics, reducing environmental impact
- Operator friendly

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

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