

TRIBOLUBE®-65

Special Purpose Fluorinated Polyether Greases

CHARACTERISTICS

TRIBOLUBE-65 primary characteristics are that it does not utilize PTFE or FEP as the thickening agent. Tribolube-65 has a very wide temperature range (-100°F to 550°F), is nonreactive with strong acids and oxygen. This grease is not recommended for applications in contact with fuels or solvents without testing to confirm compatibility. Although this lubricant is very inert, newly exposed rubbing surfaces of aluminum and magnesium may react with the greases under certain conditions. Tribolube-65 is available with three different corrosion inhibi-

tors designated by the letters RPA, RPB, & RPC. Please consult with an ALI lubrication engineer to select the correct one for your application.

APPLICATIONS

This grease was developed for dynamic applications requiring the performance of a PFPE grease at DN values over 500,000. Other applications are small and large diameter ball, roller, needle, and plain bearings, valves, gears, and screw actuators. It is compatible with most elastomers and plastic seals, gaskets and O-rings.

| PERFORMANCE TEST | TEST METHOD | CONDITION | TYPICAL VALUES |
|------------------------------|----------------------------|---|-----------------|
| Temperature Range | | | -100° to 550°F |
| NLGI Number | | | 1 |
| Unworked Penetration | ASTM D-1403 | @ 77°F | 290 |
| Worked Penetration | ASTM D-1403 | 60 Strokes | 295 |
| Oil Separation | FED-STD-791 Method 321 | 30 hrs @ 300°F | 8.63% |
| | | 30 hrs @ 350°F | 10.56% |
| | | 30 hrs @ 400°F | 12.13% |
| Evaporation | ASTM D-2595 | 22 hrs @ 400°F | 0.60% |
| | | 22 hrs @ 500°F | 1.00% |
| Low Temperature Torque | ASTM D-1478 | @ -65°F, starting | 975 gm-cm |
| | | 60 min running | 410 gm-cm |
| | | @ -75°F, Starting | 1,500 gm-cm |
| | | 60 min running | 800 gm-cm |
| | | @ -100°F, starting | 2,993 gm-cm |
| 60 min running | 1,338 gm-cm | | |
| Copper Corrosion | FED-STD-791 Method 5309 | 24 hrs @ 212°F | 1b |
| Load Wear Index | ASTM D-2596 | | 124 |
| Last Non-seizure | | Load/Wear Scar | 80 kg/0.40 mm |
| Last seizure | | Load/Wear Scar | 400 kg/ 0.93 mm |
| Weld Point | | Load | 500 kg |
| Steel-on-Steel Wear | ASTM D-2266 | 1200 rpm, 40 kg, 1 hrs @ 167°F, 52100 steel | 0.86 mm |
| | | 1200 rpm, 40 kg, 1 hrs, @ 400°F 52100 steel | NA |
| High Temperature Performance | ASTM D-3336 | 10,000 rpm @ 400°F 5 lb. load | +3,400 hrs |
| LOX Impact Sensitivity | ASTM D-2512 | 20 impacts from 1,100 mm | No Reaction |

Extending Component Life with Tribolube Synthetic Lubricants®