

# TRIBOLUBE<sup>®</sup>-64RPA

## Fluorinated Polyether Grease

### CHARACTERISTICS

**TRIBOLUBE-64RPA** primary characteristic is that it has extremely low start run torques at -100°F, yet will operate at temperatures of 400°F for long periods of time. Tribolube-64RPA is treated with Sodium Nitrite as a rust inhibitor. Tribolube-64RPA is non-reactive with strong acids, oxygen, fuels, and solvents. It is an excellent anti-wear, extreme pressure lubricant with long life. Although this lubricant is very inert, newly exposed rubbing surfaces of aluminum and magnesium may react with the grease under certain conditions. Tribolube-64RPA

is available with EP agents using the designation of MS or SW.

### APPLICATIONS

**TRIBOLUBE-64RPA** is intended for use in small and large diameter ball, roller, needle, and plain bearings, threads, 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 400°F  |
| NLGI Number                      |                            |   |                 |
| Unworked Penetration             | ASTM D-1403                | @ 77°F  | 348             |
| Worked Penetration               | ASTM D-1403                | 60 Strokes  | 343             |
| Oil Separation                   | FED-STD-791<br>Method 321  | 30 hrs @ 250°F                                    | 5.81%           |
|                                  |                            | 30 hrs @ 400°F                                    |                 |
| Evaporation                      | ASTM D-2595                | 22 hrs @ 250°F                                    | 2.71%           |
|                                  |                            | 22 hrs @ 400°F                                    | 10.11%          |
| Low Temperature Torque           | ASTM D-1478                | @ -65°F,<br>starting                              | 293 gm-cm       |
|                                  |                            | 60 min running                                    | 195 gm-cm       |
|                                  |                            | @ -100°F,<br>starting                             | 943 gm-cm       |
|                                  |                            | 60 min running                                    | 176 gm-cm       |
| Copper Corrosion                 | FED-STD-791<br>Method 5309 | 24 hrs @ 212°F                                    | 1b              |
| Load Wear Index                  | ASTM D-2596                |   | 222.36          |
| Last Non-seizure                 |                            | Load/Wear Scar                                    | 100 kg/ 0.57 mm |
| Last seizure                     |                            | Load/Wear Scar                                    |                 |
| Weld Point                       |                            | Load  | 800+ kg         |
| Steel-on-Steel Wear              | ASTM D-2266                | 1200 rpm, 40 kg,<br>1 hrs @ 167°F,<br>52100 steel | 0.80 mm         |
|                                  |                            | 1200 rpm, 40 kg,<br>1 hrs, @ 400°F<br>52100 steel | 0.91 mm         |
| High Temperature Performance     | ASTM D-3336                | 10,000 rpm @ 400°F<br>5 lb. load                  | NA              |
| Film Stability & Steel Corrosion | Mil-G-27617D               | 168 hrs @ 212°F                                   | Pass            |
| Water Washout                    | ASTM D-1264                | 1 hr @ 105°F                                      | 1.46%           |
| Resistance to Aqueous Solution   | FED-STD-791<br>Method 5415 | 168 hrs @ 77°F                                    | Pass            |
| LOX Impact Sensitivity           | ASTM D-2512                | 20 impacts<br>from 1,100 mm                       | No Reaction     |
| Fuel Stability                   | FED-STD-791                | @ 77°F  | 0.21%           |
| Fuel Resistance                  | Method 5414                | 8 hrs @ 77°F                                      | Pass            |
| Oxidation Stability              | ASTM D-942                 | 100 hours @ 212°F                                 | 0 psi           |
|                                  |                            | 500 hours @ 212°F                                 | 0 psi           |