



## **SLS EP Greases**

### **Description:**

The SLS EP Greases are specially designed for very heavy-duty service in adverse environments. They are formulated to withstand heavy and shock loading, commonly found in the construction and mining industries. The SLS EP Greases are made with lithium soap and using a blend of high quality high viscosity petroleum oils, polymers, a proprietary blend of highly pure lubricating solids, including 3% moly, and a combination of the latest in high performance additives including: anti-wear, extreme pressure, corrosion and rust inhibitors, anti-oxidants, and friction reducing components. The lubricating solids work synergistically with the anti-wear, extreme pressure, and friction reducing additives to reduce contact temperatures and wear while providing the ultimate in extreme pressure and shock load and anti-scuffing protection. This blend, together with the shear stable lithium thickening system, provides a uniquely effective seal against loss of grease or contamination from the atmosphere, even where mechanical seals may be damaged. The corrosion and rust inhibiting additives provide excellent protection for all of the components that are lubricated with the SLS EP Greases.

### **Features & Benefits:**

- 1- Excellent friction reducing characteristics due to the combination of the solid lubricants with the high-performance additives and the blend of high-quality base oils and the shear stable polymers. The lower friction leads to – easier start-up, reduced heat, and reduced energy leading to longer bearing life.
- 2- Excellent load carrying performance due to the high base oil viscosity and the combination of lubricating solids and high-performance additives. Protects equipment against extreme and shock loading and minimizes bearing components wear and extends equipment life.
- 3- Excellent mechanical stability — grease keeps its consistency in service ensuring long term protection and sealing properties to prevent contamination. Grease forms protective barrier in damaged seals.
- 4- Superior adhesion – continuous lubrication and reduced consumption as the film stays between lubricated surfaces.
- 5- Exceptional water resistance – coating film stays on the surface even in the presence of water.
- 6- Excellent resistant to rust and corrosion – extends bearing life and performance.

### **Application:**

The SLS EP Greases are multi-purpose greases that operate effectively in plain/journal and anti-friction bearings. They exhibit excellent adhesive and cohesive characteristics and are highly resistant to mechanical shearing. Typical applications include ball and roller bearings, bushings, slides, screws, and general lubrication where loads may be heavy and speeds low. Industries most commonly requiring the heavy duty, all weather capabilities of the SLS EP Greases include steel, mining, logging, chemical, and construction.

### Approvals:

The SLS EP Greases are formulated to meet the latest EP Grease specifications of Caterpillar (Bucyrus), Komatsu, and many others. The SLS EP Greases are approved and recommended by Komatsu. The SLS EP Greases are formulated to meet the latest EP Grease specifications of Caterpillar (Bucyrus), Komatsu, and many others.

## SLS Extreme Pressure Grease Series Product Typical Data

| Test                                | Method      | Test Data |          |          |          |
|-------------------------------------|-------------|-----------|----------|----------|----------|
|                                     |             | EP #2     | EP #1    | EP #0    | EP #00   |
| NLGI Grade                          | NLGI        | #2        | #1       | #0       | #00      |
| Penetration @ 77F W60               | ASTM D-217  | 280       | 325      | 370      | 415      |
| Copper Corrosion                    | ASTM D-4048 | 1b        | 1b       | 1b       | 1b       |
| 4-ball EP, weld point, kg.          | ASTM D-2596 | 800       | 800      | 800      | 800      |
| 4-ball EP, LWI                      | ASTM D-2596 | 120       | 120      | 110      | 110      |
| 4-ball wear, scar dia. Mm.          | ASTM D-2266 | 0.60 max  | 0.60 max | 0.60 max | 0.60 max |
| Timken OK Load (lbs.)               | ASTM D-2509 | 70        | 60       | 60       | 60       |
| Base Oil Viscosities                |             |           |          |          |          |
| -cSt @ 40 °C                        | ASTM D-445  | 680       | 680      | 260      | 260      |
| -cSt @ 100 °C                       | ASTM D-445  | 38.5      | 38.5     | 21.0     | 21.0     |
| -VI                                 |             | 100       | 100      | 100      | 100      |
| Base Oil + Polymer Viscosities      |             |           |          |          |          |
| -cSt @ 40 °C                        | ASTM D-445  | 1000      | 1000     | 460      | 460      |
| -cSt @ 100 °C                       | ASTM D-445  | 54        | 54       | 31       | 31       |
| -VI                                 |             | 120       | 120      | 110      | 110      |
| Minimum Ambient Temperature (°F)    |             | 40        | 20       | -10      | -20      |
| Flash Point (°F)                    | ASTM D-92   | 400+      | 400+     | 400+     | 400+     |
| MoS <sub>2</sub> content; %wt. min. |             | 3.0       | 3.0      | 3.0      | 3.0      |