

## **SLS EP Greases**

### **Description:**

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. 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 which lead to easier start-up, reduced heat, and reduced energy leading to longer bearing life.
- 2- Superior load carrying performance due to the high base oil viscosity and the combination of lubricating solids and high-performance additives.
- 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- Exceptional water resistance – coating film stays on the surface even in the presence of water.
- 5- Excellent resistant to rust and corrosion – extends bearing life and performance.

### **Application:**

SLS EP Greases are multi-purpose greases that operate effectively in plain/journal and anti-friction bearings. 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:**

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
<b>Base Oil Viscosities</b>					
-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
<b>Base Oil + Polymer Viscosities</b>					
-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