



## PRODUCT INFORMATION SHEET

### **SLS High Viscosity Enclosed Gear Oils (EGO): ISO 680 and Higher**

#### Description:

SLS High Viscosity EGO (ISO 680 and Higher) are EP Gear Oils formulated with a combination of a very shear stable, high viscosity synthetic fluid and the highest quality paraffinic petroleum oil to provide extended service life. They are formulated with the most advanced combination of Extreme Pressure (EP), Anti-Wear (AW), and other high-performance additives which provide one of the best High Viscosity EP Gear Oils, having outstanding extreme pressure and load-carrying properties. These high viscosity gear oils are intended for use in all types of enclosed gear drives with either circulation or splash lubrication systems.

SLS High Viscosity EGO provide maximum protection to enclosed gear drives on large mining and construction equipment such as draglines and shovels. The maximum protection is achieved by formulating with a combination of high viscosity synthetic and petroleum oils of the highest qualities, that have been specifically selected to provide the gear oils with extended service life, many times providing 2 to 3 times the service life as compared to conventional gear oils.

The EP and AW additives work synergistically with the high viscosity index combination of the synthetic fluid and petroleum base oils. Together, they provide gear oils that are able to reduce friction and wear which results in the reduction of contact temperatures, while providing excellent anti-weld and anti-scuffing protection under extreme pressure, shock loading, and changing speeds. The combination of unique synthetic and petroleum oils, best-in-class oxidation inhibitors and the ability to reduce temperature, results in the extended life of the gear oil. As the service life of the gear oil is extended, the lubricant consumption can be significantly reduced over time as compared to conventional lubricants.

#### Features & Benefits

- 1- Formulated to address environmental concerns - it is free of heavy metals such as lead, antimony and Barium, and no chlorinated components or solvents.
- 2- Designed to have excellent resistance to oil oxidation and thermal degradation which results in extended service life and a reduction in lubricant consumption.
- 3- Created to have high resistance to sludge and deposit formation which helps extend the service life of the oil, resulting in a reduction of lubricant consumption.
- 4- Formulated to provide excellent protection against extreme pressures, shock -loading and to reduce friction and wear which results in longer component life.
- 5- Formulated to provide excellent rust and corrosion protection, resulting in longer component life.
- 6- Formulated to provide excellent foam suppression.

#### Applications & Approvals:

SLS High Viscosity EGO (ISO 680 and Higher) are especially suited for service in enclosed gears for heavy-duty industry and mining machinery. They are formulated to exceed the U.S. Steel 224 and AGMA 250.04 requirements.

## SLS High Viscosity Enclosed Gear Oils (EGO) Product Typical Data

Test	Method	Test Data			
ISO Grade		680	1000	1500	2000
<b>Base Fluid Properties</b>					
-cSt @ 100 C	ASTM D-445	49.3	69.7	101.3	130.0
-cSt @ 40 C	ASTM D-445	723.1	1,066.0	1,588.0	2,146.4
-VI	ASTM D-2270	119.3	131.4	146.7	154.2
Pour Point (deg F/C)	ASTM D-97	5/-15	15/-10	15/-10	30/-1
Flash Point (deg. F)	ASTM D-92	400+	400+	400+	400+
Timken OK Load (lbs)	ASTM D-2781	70	70	70	70
4-ball EP, weld point, kg.	ASTM D-2783	500	500	500	800
4-ball EP, LWI	ASTM D-2788	90	100	100	125
4-ball wear, scar dia. Mm.	ASTM D-2266	<0.40	<0.40	<0.40	<0.40
FZG Pass Stage	ASTM D-1451	13	13	13	13

\*Lower Viscosity Grades Available