

## **PRODUCT INFORMATION SHEET**

### **SLS BI OGL Extra Heavy and BI OGL Heavy**

#### Description

SLS BI OGL Extra Heavy and BI OGL Heavy were specifically designed for the lubrication of open gear systems found on heavy duty equipment in mining such as large draglines and shovels. These grades work great during higher ambient temperatures found near the equator and/or the summer months anywhere in the world.

SLS BI OGL Extra Heavy and BI Heavy provide maximum protection to open gears, racks and pinions, and slides on large draglines and shovels because of its combination of high viscosity oils, thermal plasticizing hydrocarbon resins, and polymers that have been specifically selected to provide the formation of a tenacious lubricant film that adheres to the mating surfaces. The lubricant does not squeeze out, but the film is soft enough and stays pliable over time, minimizing lubricant build-up in the roots of the gear teeth.

The unique high viscosity oil blend is fortified with about 15% high purity lubricating solids, including a minimum 2% Moly, and a combination of the latest in Extreme Pressure (EP) and Anti-Wear (AW) additives. The lubricating solids work synergistically with the EP and AW additives to reduce friction which results in the reduction of contact temperatures, while providing excellent anti-weld and anti- scuffing protection under extreme pressure, shock loading, and slow speeds. The combination of the unique oils, resins, polymers, lubricating solids, and the specially selected EP and AW additives generates a tough and durable lubricant film with excellent adherence that separates the mating surfaces, which greatly reduces metal to metal contact and wear.

#### Features & Benefits

1- SLS BI OGL Extra Heavy and BI Heavy are formulated to minimize potential environmental pollutants (no Heavy Metals, no chlorinated additives, no solvents).

2- Designed to form a tough durable film which separates the mating surfaces, reducing friction and wear, and providing maximum components protection, which leads to reduction in consumption and the mining equipment lasting longer.

3- The combination of high viscosity oils, resins, and polymers provide excellent water resistance.and resists peeling off in dry and dusty conditions which leads to less contamination into the environment.

4- SLS BI OGL Extra Heavy and BI Heavy are formulated with the most advanced rust and corrosion inhibitors

#### Applications:

SLS BI OGL Extra Heavy and BI Heavy can be applied to heavily loaded open gears such as those found in mining equipment (draglines, shovels) and in industrial equipment (kilns, grinding mills, ship loaders, crane slew ring and pinion).

# SLS BI OGL Extra Heavy and BI OGL Heavy Product Typical Data

Test Method			
		BIOGL	BIOGL
		Extra Heavy	Heavy
NLGI Grade	NLGI	#1	#0
Penetration @ 77F W60	ASTM D-217	325	370
Flash Point (deg F) -Product -Base	ASTM D-92	>400F >400F	>400F >400F
Rust Protection	ASTM D-1743	PASS (3X)	PASS (3X)
Copper Corrosion	ASTM D-4048	1Ъ	1b
4-ball EP, weld point, kg.	ASTM D-2596	800+	800+
4-ball EP, LWI	ASTM D-2596	155	155
4-ball wear, scar dia. mm	ASTM D-2266	0.65	0.65
Base Oil Viscosities (without polymer)			
-cSt @ 100 C -cSt @ 40 C -cSt @ 40 C (with polymer) -VI	ASTM D-445 ASTM D-445 ASTM D-445	188 5,762 7,500 122	188 5,762 7,500 122
Minimum Ambient Temperature (°F)		60	40
MoS₂ content; %wt. min		2.0	2.0