

TECHNICAL DATA SHEET

SurStik® MULTISERVICE LUBRICANT

Whitmore's new SurStik® Multiservice Lubricant is designed with the latest technology available in nontoxic, nonheavy metal, extreme pressure/antiwear chemistry. The unique design of this revolutionary new product includes severely hydrotreated base stocks, an advanced polymerized thickener system, and Whitmore's unique Bi-Laminate™ additive system. Whitmore's SurStik® is specially formulated for use on mining shovels and draglines in open cut operations to reduce the adverse effects of severe dust and dirt contamination, water, ice and snow, and changes in temperature.

Whitmore's SurStik® contains a high molecular weight polymer that resists drying, oxidation, and thermal decomposition. This is extremely helpful in areas of high dust contamination or when typical weather conditions can cause peeling and "flaking" of conventional lubricants from sticks, gears, and circle rails. Whitmore's Bi-Laminate™ additive system provides superior load-carrying ability and high performance wear resistance in an environmentally safe package.

Whitmore's SurStik® has a thickener structure that inherently resists emulsification with water and has excellent mechanical and thermal stability. This thixotropic structure makes the product ideal for use in bearings and bushings. Field results indicate that the product's performance increases as operating and climatic conditions become more severe. The low temperature capabilities allow the lubricant film to maintain its adhesive characteristics and durable protection under the most demanding conditions.

BENEFITS:

- EXTREME LOAD-CARRYING ABILITY protects during shock loading against seizure.
- VERSATILE superior mechanical stability and shear resistance allow the product to be used in a variety of applications including open gears, sticks, circle rail and rollers, antifriction bearings, and bushings.
- ENVIRONMENTAL COMPLIANCE free of heavy metals and solvents.
- WIDE TEMPERATURE RANGE use SurStik® Summer yearround in warm climates. Use SurStik® Winter year-round in northern climates.

APPLICATIONS:

Whitmore's SurStik® is highly recommended for applications on mining shovels and draglines including open gears, sticks, circle rails and rollers, lower swing bearings, and bushings. Whitmore's SurStik® meets or exceeds the lubricant specification of major OEM's for a multiservice lubricant.

SurStik® is also highly recommended for the open gears of kilns and driers.

ASTM #		TYPICAL CHARACTERISTICS		
		Winter Grade	Summer Grade	Extra Heavy Grade
	NLGI Grade	00 to 0	1	1 to 1.5
D-445	Kinematic Viscosity, base oil			
	(Base Oil without Polymer)			
	cSt @ 40°C	46	1,500	1,500
	cSt @ 100°C	6.7	65	65
	(Base Oil with Polymer)			
	cSt @ 40°C	680	5,400	5,400
	cSt @ 100°C	51.2	195	195
Gardner	Density , lb/gal @ 60°F (15.5°C)	8.51	8.15	8.75
Method	Specific Gravity, g/cc @ 60°F (15.5°C)	1.022	0.979	1.050
D-2596	Four Ball EP			
	Weld Point, kg	500	620	500
	Load Wear Index	90	100	
D-1743	Rust Test	Pass	Pass	Pass
D-4048	Copper Strip Corrosion for Greases	1B	1B	1B
(Modified)	212°F (100°C) @ 3 hrs			
	Thickener Type	Aluminum Complex	Aluminum Complex	Aluminum Complex
OEM	Low Temperature Pumpability	•		
Standard	Lincoln Ventmeter @ 400 psi, °F (°C)	-40 (-40)	10 (-12)	20 (-7)
	Operating Range, °F (°C)	-40 to 50 (-40 to 10)	10 to 170 (-12 to 75)	20 to 230 (-7 to 110)

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

Shuttle Tanks	Drums	Kegs	Pails		

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