



TECHNICAL DATA SHEET

SurStik® 800 MULTISERVICE LUBRICANT

SurStik® 800 is a high performance extreme pressure lubricant designed for use on open gears and other highly loaded components under the most punishing conditions and hostile environments.

The dark lubricating film that is formed by SurStik® 800 is robust and tenacious. It is easily established and highly resistant to being washed off by over-lubrication. The use of high molecular weight polymers assures adhesion of solid lubricants to the component and long lubrication intervals. SurStik® 800 will not be removed from shovel dipper sticks by wet or freezing conditions.

All grades meet the requirements of the Caterpillar (formerly Bucyrus International) specification SD 4713. SurStik® 800 also meets the P&H Material Specification #520 for multiservice lubricants.

The grades that meet the Caterpillar specification SD 4713 revision issued June 2011 are: Medium Special, Heavy Special, Extra Heavy, and Super Heavy (data for the Super Heavy grade is available upon request). These grades meet the requirements for use on Caterpillar Shovel Hoist Drum Gears for the models listed in the revision.

The Medium Special grade is based on synthetic base oil.

BENEFITS:

- **TCLP-SAFE** - passes the EPA Toxicity Characteristic Leaching Procedure. This means that the product is free of heavy metals and ozone-depleting solvents.
- **WEAR PROTECTION** - extends component life, reduces operating expenses.
- **MULTISERVICE LUBRICANT** – for use on draglines and shovels.
- **PUMPABILITY** - In many climates, a single grade can be used year-round. SurStik® 800 does not damage seals or packing materials used in pumping systems and injectors.

APPLICATIONS:

SurStik® 800 is specifically designed to lubricate open gears found on Draglines, Shovels, Grinding Mills, Kilns, and similar equipment. All grades are suitable for heavily loaded bushings. SurStik® 800 is ideal for exposed parts on mining equipment such as swing racks, house rails and rollers, shovel dipper sticks, and drum laggings. Also recommended for use in slow-moving bearings and propel bushings.

ASTM #		TYPICAL CHARACTERISTICS					
		Arctic	Medium	Medium Special	Heavy Special	Heavy	Extra Heavy
	Consistency	Thick Fluid	NLGI 000 Grease	NLGI 000 Grease	NLGI 00-000 Grease	NLGI 0 Grease	NLGI 1.5 Grease
D-445	Kinematic Viscosity (Base Oil with Polymer) cSt @ 40°C cSt @ 100°C	1,520 120.0	2,260 131.5	4,000 175.0	4,000 127.0	4,000 127.0	4,000 127.0
Gardner Method	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 60°F (15.5°C)	8.40 1.008	8.68 1.042	8.53 1.022	8.50 1.020	8.81 1.050	8.52 1.023
D-92	Flash Point, COC, °F (°C)	>195 (91)	>400 (204)	230 (110)	250 (121)	>400 (204)	>400 (204)
D-2596	Four Ball EP Weld Point, kg Load Wear Index (minimum)	800 120	800 120	800 120	800 120	800 120	>800 120
D-2266	Four Ball Wear, Scar Width, mm (max)	0.67	0.65	0.70	0.67	0.65	0.7
D-1743	Rust Test	Pass	Pass	Pass	Pass	Pass	Pass
D-4048 Modified	Copper Strip Corrosion 212°F (100°C) @ 3 hr	1B	1B	1B	1B	1B	1B
Bucyrus Standard	Low Temperature Pumpability Lincoln Ventmeter @ 600 psi, °F (°C) Lincoln Ventmeter @ 400 psi, °F (°C)	-50 (-46) -45 (-43)	-26 (-32) -22 (-30)	-40 (-40) -36 (-37)	-26 (-32) -22 (-30)	15 (-9) 20 (-6)	30 (-1) 40(+4)
	Operating Temperature, °F (°C)	-45 (-43) to 50 (10)	-26 (-32) to 104 (40)	-40 (-40) to 105 (41)	-26 (-32) to 90 (32)	15 (-9) to 250 (121)	30 (-1) to 250 (121)

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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