

## 200S SILVER STREAK® SPECIAL

Silver Streak® Special is a para-synthetic, heavy duty, extreme pressure non-solvent containing multi service lubricant that is recommended for the lubrication of heavily loaded open gears particularly those found in grinding mills, kilns, shovels, dragline, ship loaders, stackers and reclaimers and excavator applications; as one grease (multipurpose and open gear) for the entire machine on most shovels, excavators and draglines (excluding electric motor bearings); as a surface dressing for slow moving gears open to the atmosphere, plain bearings, pivot pins and bushings and articulations found on earth moving equipment; mooring, static and slow moving wire ropes including those intermittently immersed in salt water and other applications that are common to the mining, marine, railroad, steel mill and power plant industries. Silver Streak® Special also works great on fifth wheels.

Silver Streak® Special is compounded from a unique blend of select solvent refined severely hydro-finished high viscosity index paraffin base oils and polyalphaolefin synthetic base oils. These base oils were selected for their exceptional physical and chemical stability and their exceptional serviceability over a wide range of temperatures. These base fluids are further compounded to provide the Silver Streak® Special with superior adhesive film-forming characteristics. This adhesive film-forming characteristic allows Silver Streak® Special to resist “squeeze out” and “sling out” along with allowing the product to cling tenaciously, even to gears that are in a vertical orientation. Also this compounding allows Silver Streak® Special to have a superior resistance to oil separation due to centrifugal forces that are common in many coupling applications. **This special compounding allows Silver Streak® Special to remain soft and pliable over a long period of time without the use of any kind of solvents, especially non-flammable chlorinated solvents such as 1,1,1 trichloroethane that are being considered undesirable for use due to environmental consideration.**

To fortify the adhesive film strength of Silver Streak® Special, a combination of molybdenum disulfide and various solid lubricants are compounded into Silver Streak® Special. The molybdenum disulfide and various lubricants contribute to the structure of the film, and also improve the anti-wear, extreme pressure characteristics and load-carrying capabilities of Silver Streak® Special beyond those of conventional lubricants. The load carrying ability of Silver Streak® Special is in excess of 500,000 pounds per square inch. This combination of molybdenum disulfide and various solid lubricants also forms a protective layer between the mating surfaces. This protective layer provides a cushioning effect between the contacting asperities that minimizes pitting of the mating surfaces.

Silver Streak® Special offers the following advantages.

- Forms an almost indestructible adhesive film with a “cushioning” effect even under extreme pressure and at very low speeds.
- Resists film destruction by contaminating oils or greases “migrating” from nearby mechanisms.
- Exceptional physical and mechanical stability.
- Resistant to water washout and water wash-off by immersion or spray.
- Resistant to the adhering of dirt or dust.
- Reduction in contact temperatures.
- Minimizes cold metal welding at the contacting asperities.
- Minimizes the vibration of “stick slip”.
- Excellent anti-wear and extreme pressure characteristics.
- Maximizes a reduction in lubricant consumption rate.
- Excellent corrosion protection to protect metal surfaces from corrosion in hostile environments.

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**Only Silver Streak® Special Ultra Light grade can be used in enclosed industrial type gear cases to replace an SAE 250 weight or ISO 1000 viscosity grade lubricant.**

Silver Streak® Special can be applied either manually or by heavy duty automatic lube systems. Silver Streak® Special Heavy can be pumped down to 50°F/10°C\*. Silver Streak® Special Medium can be pumped down to 45°F/7°C\*. Silver Streak® Special Light can be pumped to 32°F/0°C\*. Silver Streak® Special Extra Light can be pumped to 14°F/-10°C\*. Silver Streak® Special Extreme Light can be pumped to -20° to -25°F/-29° to -32°C\*. Silver Streak® Special Ultra Light can be pumped to -40°F/-40°C\*. When using Silver Streak® Special Ultra Light in summer months or in warm weather conditions, consideration should be given to using a heavier grade of Silver Streak® Special.

**\*May vary with types of equipment and dispensing system configuration used.**

## TYPICAL PROPERTIES

	Ultra	Extreme	Extra	Light	Medium	Heavy
Specific Gravity 60°F/15.6°C	0.9848	0.9903	1.00	1.00	1.00	1.01
Flash Point °F/°C (ASTM D93), min.	343.4°/173°	334.4°/168°	424.4°/218°	417.2°/214°	415.4°/213°	413.6°/212°
Four Ball E.P. Test (ASTM D2596):						
Weld Point, kg,	800	800	800	800	800	800
Weld Newtons	8000	8000	8000	8000	8000	8000
Four Ball E.P. Test (ASTM D2266):						
Scar Diameter, mm	.59	.56	.57	.59	.60	.61
Falex Continuous Load (ASTM D3233):						
Failure Load, lbs-f	+4500	+4500	+4500	+4500	+4500	+4500
Failure Load, Newtons	+20450	+20450	+20450	+20450	+20450	+20450
FZG DIN 51-354						
Failure Stage	+13th	+13th	----	----	----	----
Rust Inhibition Test (ASTM D1734)	1,1,1	1,1,1	1,1,1	1,1,1	1,1,1	1,1,1
Copper Strip Corrosion (ASTM D4048)	1b	1b	1b	1b	1b	1b
Deleterious Particles (ASTM D404)						
#Scratches	20	15	20	10	14	14
Rating	2	2	2	1	2	2
<b>Base Oil Properties</b>						
Viscosity @ 40°C, cSt	76-90	84-94	608-689	804-926	975-1100	1426-1733
Viscosity @100°C, cSt (ASTM D445)	12.5-17	17-21.5	35-39	45-52	63-76	79-88