



## TECHNICAL DATA

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### #200S SILVER STREAK®SPECIAL MULTI-LUBE

Silver Streak®Special Multi-Lube 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 Multi-Lube is compounded from a unique blend of select solvent refined severely hydrofinished 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 Multi-Lube with superior adhesive film-forming characteristics. This adhesive film-forming characteristic allows Silver Streak®Special Multi-Lube 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 Multi-Lube 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 Multi-Lube 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 Multi-Lube, a combination of molybdenum disulfide and various solid lubricants are compounded into Silver Streak®Special Multi-Lube. 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 Multi-Lube beyond those of conventional lubricants. The load carrying ability of Silver Streak®Special Multi-Lube is in excess of 500,000 pounds per square inch.

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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 Multi-Lube offers the following advantages.

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

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

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

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

	Ultra	Extreme	Extra	Light	Medium	Heavy
Specific Gravity 60°F/15.6°C	1.003	1.070	1.076	1.08	1.09	1.09
Unworked Penetration @ 77°F/25°C (ASTMD-217)	----	----	----	----	----	310-350
Flash Point °F/C (ASTMD-93), min.	266°/130°	266°/130	266°/130	266°/130	266°/130	266°/130
Four Ball E.P. Test (ASTMD-2596):						
Weld Point, kg,	500	620	620	620-800	620-800	620-800
Weld Newtons	5000	6200	6200	6200-8000	6200-8000	6200-800
Four Ball E.P. Test (ASTMD-2266):						
Scar Diameter, mm	.54	.57	.67	.67	.68	.68
Falex Continuous Load (ASTMD-3233):						
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 (ASTMD-1734)	1,1,1	1,1,1	1,1,1	1,1,1	1,1,1	1,1,1
Copper Strip Corrosion (ASTMD-4048)	1b	1b	1b	1b	1b	1b
Deleterious Particles ASTMD-1404						
#Scratches	20	15	20	10	14	14
Rating	2	2	2	1	2	2

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**Base Oil Properties**

Viscosity @ 40°C, cSt

Viscosity @ 100°C, cSt

	Ultra	Extreme	Extra	Light	Medium	Heavy
Viscosity @ 40°C, cSt	76-90	84-94	608-689	804-926	975-1100	1426-1733
Viscosity @ 100°C, cSt	12.5-17	17-21.5	35-39	45-52	63-76	79-88

Packaging: #200S Silver Streak® Special Multi-Lube is available in (net weights) 450 lb. drums, 130 lb. kegs, 40 lb. pails and cartridges (25 caulking tubes per case).