
PRODUCT INFORMATION

A PRODUCT OF AMERICAN CHEMICAL TECHNOLOGIES, INC.



Lith SWEP 1.5

Lithium Grease

DESCRIPTION:

Lith SWEP 1.5 incorporates the latest developments in polymer technology along with a proven lithium 12-hydroxy stearate thickener system to yield a very stable, highly water resistant, multi-purpose lubricant. As a multi-purpose lithium grease, **Lith SWEP 1.5** may be used in the following applications: all automotive and fleet universal joints, ball joints, chassis applications, as well as conveyors, pumps, dryers, filters, forging presses, ball mills and crushers.

In addition to its multi-purpose nature, **Lith SWEP 1.5** exhibits two additional characteristics; outstanding water resistance or ability to adhere to metal surfaces and mechanical stability, both in the presence of water.

The water resistant nature of this product can best be demonstrated by comparing its test results with other lubricants in water spray off testing. In this testing, **Lith SWEP 1.5** typically exhibits a 10% loss at the end of the test cycle. This is compared to a typical loss of 85% for regular lithium, 70% for calcium complex and 20% for aluminum complex greases.

Another unique benefit of this product is its mechanical stability in the presence of water as demonstrated by the Roll Stability Test. Repeated testing has shown no change in grease penetration at the end of the test cycle. These outstanding results are due to the products unique structure, which shows surface activity and a polar affinity for metals far beyond normal grease structures. Adhesion to metal surfaces in the presence of water is its most outstanding feature.

Due to the outstanding water resistance of this product, it has found immediate acceptance in a wide variety of applications. Most notably has been its performance in steel mill roll neck bearing services, bar mill looper and guide rolls, bearing chocks and feeder rolls. Other applications include; underwater dredges, marine wire ropes, fifth wheels, rock drill stems, drum baring equipment, boat trailer wheel bearings and the wet end of paper machines.

Lith SWEP 1.5

PROPERTIES:

	Test Method	LISWEP1.5
Color		Dark Brown
Thickener Type		Lithium 12-Hydroxysterate
Texture		Smooth
Thickener Content	ASTM D128	4-7%
NLGI Grade	ASTM D4950	1.5
Base Oil Viscosity @ 104°F	ASTM D445	1,000-1,300 SUS
Viscosity @ 212°F	ASTM D445	90-110 SUS
Viscosity Index	ASTM D2270	85
Grease Mobility	USS Method LT37	3 g/min
Dropping Point, minimum	ASTM D566	177°C (350°F)
Cone Penetration @ 25°C (77°F)	ASTM D217	
Worked 60 strokes		290-315mm
Worked 10,000 strokes		± 5%mm
Evaporation Loss @ 210 °F, maximum	ASTM D972	2%
Flash Point, minimum	ASTM D92	166°C (330°F)
Fire Point, minimum	ASTM D92	188°C (370°F)
Rust Prevention	ASTM D1743	Pass
Roll Stability, change, maximum	ASTM D1831	5%
Shear stability w/ water, change, maximum	W-PTM-3	8%
Water spray resistance, 5 min @ 100 °F, 40 psi, maximum	ASTM D4049	8 %
EP Properties (Four-Ball Method)	ASTM D 2596	
Weld Point, minimum		250 kgf
Load-Wear Index, minimum		40 kgf
OK Load (Timken Method)	ASTM D2509	60 lb-f
Wheel Bearing Leakage, maximum	ASTM D1263	5 g

The information contained herein is correct to the best of our knowledge. The recommendations or suggestions contained in this bulletin are made without guarantee or representation as to results. We suggest that you evaluate these recommendations and suggestions in your own laboratory prior to use. Our responsibility for claims arising from breach of warranty, negligence, or otherwise is limited to the purchase price of the material. Freedom to use any patent owned by American Chemical Technologies' or others is not to be inferred from any statement contained herein.