



The First in Synthetics®

**Superior Lubrication and Protection in
Automotive and Industrial Applications
With Extensive Exposure to Water**

SYNTHETIC WATER RESISTANT LITHIUM COMPLEX GREASE

Multi-Purpose NLGI No. 1-1/2 GC-LB
Extreme Pressure Fortified

PRODUCT DESCRIPTION

AMSOIL Synthetic Water Resistant Lithium Complex Grease is an extreme-pressure, multipurpose grease formulated specially for wet-duty performance. Its water washout and sprayoff resistance ideally suit it for use in the wheel bearings of vehicles and trailers frequently exposed to water, mud, snow or ice.

The grease is also excellent for use in plants, such as papermills, in which machinery undergoes frequent or prolonged exposure to water.

Water Washout and Sprayoff Protection

AMSOIL Synthetic Water Resistant Lithium Complex Grease derives its superior wet-duty performance from its peerless cohesiveness and adhesiveness. Because the grease holds together when exposed to water and clings tenaciously to metal surfaces even when wet, AMSOIL Synthetic Water Resistant Lithium Complex Grease provides tough protection against water. Components remain protected during prolonged exposure to standing water or exposure to pressurized water.

Rust and Corrosion Protection

AMSOIL Synthetic Water Resistant Lithium Complex Grease protects metal surfaces from rust and corrosion, both of which may be hastened or worsened by frequent or prolonged water contact. It seals metal surfaces against rust and chemically fights corrosion.

High and Low Temperature Performance

AMSOIL Synthetic Water Resistant Lithium Complex Grease reduces friction effectively, helping high-speed components run cooler than they can with other greases. It resists the damaging effects of high temperatures and oxidation so components stay deposit-free for optimal performance and long life.

AMSOIL Synthetic Water Resistant Lithium Complex Grease pumps easily at low temperatures for dependable cold-temperature protection. Its low-temperature pumpability makes the grease an excellent choice for use in automatic greasing systems.

In fact, AMSOIL Synthetic Water Resistant Lithium Complex Grease performs over such a broad temperature range, it may be used in place of separate high-temperature and low-temperature greases.

Load Carrying and Extreme Pressure Performance

AMSOIL Synthetic Water Resistant Lithium Complex Grease protects components from metal-to-metal contact even under heavy loads. Its extreme pressure additives form a shield against sustained or sudden extreme loads for dependable protection against wear.

Compatibility

AMSOIL Synthetic Water Resistant Lithium Complex Grease is compatible with most seal materials and most other greases.

Service and Shelf Life

AMSOIL Synthetic Water Resistant Lithium Complex Grease resists oxidation, high-temperature degradation and additive depletion so effectively, the grease may be used for longer service intervals than conventional greases may be used. AMSOIL Synthetic Water Resistant Lithium Complex Grease also resists oil separation and offers a long shelf life.

APPLICATION

AMSOIL Synthetic Water Resistant Lithium Complex Grease meets the highest performance standards set by the National Lubricating Grease Institute (NLGI), GC for wheel bearing applications, and LB for chassis applications. It may be used in automotive wheel bearings, chassis or other applications for which an NLGI No. 1-1/2 GC or LB grease is recommended.

AMSOIL Synthetic Water Resistant Lithium Complex Grease's unique water resistant formulation makes it ideal for use in components or equipment with frequent or prolonged water exposure.

TYPICAL TECHNICAL PROPERTIES

AMSOIL Synthetic Lithium Complex Water Resistant Grease (GWR)

	NLGI GC-LB	AMSOIL GWR
Thickener	NR*	Lithium Complex
NLGI Consistency Grade	NR*	1.5
NLGI Performance Grade	GC-LB	GC-LB
Extreme Pressure Fortified	NR*	Yes
Penetration (ASTM D-217) 25° C [77° F], 0.1 mm		
Unworked	220 - 340	295 - 310
Worked 60 strokes	220 - 340	295 - 310
Dropping Point (ASTM D-2265) ° C [° F]	220 [428]	>260 [>500]
Water Washout (ASTM D-1264)		
79° C [175°F] % loss	15 max	0.9
Oil Separation (ASTM D-1742)		
24 hr. @ 25° C [77° F], % loss	6 max	2.4
Rust Protection (ASTM D-1743)	1 max	pass
Timken OK Load Test (ASTM D-2509), lbs.	NR*	45
Four Ball Wear Test (ASTM D-2266)		
Wear Scar Diameter, mm	0.6 max	0.56
Compatibility with other greases	NR*	excellent
Extreme Pressure, Four Ball Method (ASTM D-2596)		
Weld Point, kgf.	200 min	315
Load Wear Index, kgf.	30 min	40
Meets Disc Brake Wheel Bearing Specification:		
GM 4733-M	NR	Yes
GM 6031-M	NR	Yes
Chrysler MS-3701	NR	Yes
High Temperature Life (ASTM D-3527) Hours	80 min	124
Fretting Wear (ASTM D-4170)* Mg	10 max	9.7
Elastomer Compatibility (ASTM D-4289)		
Volume change, %, GC	-5 to +30	26.2
Volume change, %, LB	0 to +30	5.7
Hardness change, durometer-A points, GC	+2 to -15	-3
Hardness change, durometer-A points, LB	0 to -10	-8
Leakage (ASTM D-4290), g*.	10 max.	1.0
Low Temperature Torque (ASTM D-4693)		
n•m, max @ -40° C [-40° F]	15.5	8.2
Water Spray Off (ASTM D-4049), % max	NR*	6.9

*NR: Not Required for NLGI GC or LB labeling.

AMSOIL products and Dealership information are available from your local AMSOIL Dealer, or by contacting AMSOIL.
 Phone: (715) 392-7101
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