



The First in Synthetics®

Synthetic Water Resistant Lithium Complex Grease

Multi-Purpose NLGI #2 GC-LB Extreme Pressure Fortified

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

PRODUCT DESCRIPTION

AMSOIL Synthetic Water Resistant Grease (GWR) is an extreme-pressure, multipurpose grease formulated specially for wet-duty performance. Its water washout and sprayoff resistance are ideal for wheel bearings of vehicles and trailers frequently exposed to water, mud, snow or ice. It is also excellent for use in plants, such as paper mills, in which machinery undergoes frequent or prolonged exposure to water.

Water Washout and Sprayoff Protection

AMSOIL Synthetic Water Resistant Grease derives its superior wet-duty performance from its peerless cohesiveness and adhesiveness. It holds together when exposed to water and clings tenaciously to metal surfaces when wet. Components remain protected during prolonged exposure to standing water or exposure to pressurized water.

Rust and Corrosion Protection

AMSOIL Synthetic Water Resistant 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 Grease effectively reduces friction, helping high-speed components run cooler. 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 Grease may be used in place of separate high-temperature and low-temperature greases.

Load Carrying and Extreme-Pressure Performance

AMSOIL Synthetic Water Resistant 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.

Service and Shelf Life

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

APPLICATION

AMSOIL Synthetic Water Resistant Grease meets the highest performance standards set by the National Lubrication 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. 2 GC or LB grease is recommended.

Its unique water-resistant formulation makes it ideal for use in components or equipment with frequent or prolonged water exposure. AMSOIL Synthetic Water Resistant Grease is compatible with most seal materials and most other greases.



TYPICAL TECHNICAL PROPERTIES
Synthetic Lithium Complex Water Resistant Grease (GWR)

	AMSOIL GWR	NLGI GC-LB Minimum Requirements
Thickener	Lithium Complex	NR*
NLGI Consistency Grade	2	NR*
NLGI Performance Grade	GC-LB	GC-LB
Extreme Pressure Fortified	Yes	NR*
Penetration (ASTM D-217) 25°C [77°F], 0.1 mm		
Unworked	265 - 295	220 - 340
Worked 60 strokes	265 - 295	220 - 340
Dropping point (ASTM D-2265) °C [°F]	273 [525]	220 [428]
Water Washout (ASTM D-1264)		
80°C [175°F] % loss	3.5	15 max
Oil Separation (ASTM D-1742)		
24 hr. @ 25°C [77°F], % loss	1.0	6 max
Rust Protection (ASTM D-1743)	pass	1 max
Timken OK Load (ASTM D-2509), lbs.	45	NR*
Four Ball Wear Test (ASTM D-2266)		
Wear Scar Diameter, mm	0.48	0.6 max
Compatibility with other greases	excellent	NR*
Extreme Pressure, Four Ball Method (ASTM D-2596)		
Weld Point, kgf.	315	200 min
Load Wear Index, kgf.	42	30 min
Meets Disc Brake Wheel Bearing Specification:		
GM 4733-M	Yes	NR
GM 6031-M	Yes	NR
Chrysler MS-3701	Yes	NR
High Temperature Life (ASTM D-3527) Hours	100	80 min
Fretting Wear (ASTM D-4170)* Mg	9.2	10 max
Leakage (ASTM D-4290), g*	1.0	10 max
Low Temperature Torque (ASTM D-4693)		
n•m, max @ -40°C [-40°F]	7.5	15.5
Water Spray Off (ASTM D-4049), % max	8.5	NR*

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

AMSOIL products and Dealership information are available from your local AMSOIL Dealer.

