



*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)**

|  | <b>AMSOIL<br/>GWR</b> | <b>NLGI GC-LB<br/>Minimum<br/>Requirements</b> |
|--|-----------------------|--|
| 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.



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