



LSG SYNTHETIC LITHIUM COMPLEX 100 GREASE NO. 1 & 2

High Performance PAO Synthetic Grease for Marine Bearings and
High-Speed Applications

Superior Protection Against Saltwater, Extreme Temperatures, and
High Speeds for Marine Equipment.

LSG SYNTHETIC LITHIUM COMPLEX

100 GREASE NO. 1 & 2



is a premium synthetic (PAO) grease engineered with an advanced synthetic base oil to meet the rigorous demands of the marine environment and equipment. Designed for extended service life, optimal performance, and superior protection against harsh elements. This high-performance lubricant delivers outstanding stability for components exposed to saltwater, high speeds, elevated temperatures (e.g., engine rooms), and continuous operation equipment.

Utilizing a state-of-the-art synthetic base oil and a precision thickener system, LSG Synthetic Lithium Complex 100 Greases resist saltwater corrosion, thermal breakdown, and freshwater intrusion. Its superior mechanical integrity and low-temperature flow characteristics make it ideal for use in high speed applications such as propeller shafts, motor bearings, pumps, and other critical marine components operating in diverse conditions.

Engineered to minimize wear and reduce friction under high-load, high-RPM conditions, this grease provides long-lasting performance and consistent lubrication. It maintains its structure and position in demanding marine environments, preventing leakage or component failure, even when subjected to waves, washdowns, or submersion. The availability of NLGI No. 1 and No. 2 allows for versatile applications, including cold weather pumpability or adhesion to various marine parts.

Recommended for vital marine machinery and vessel components, LSG Synthetic Lithium Complex 100 Greases support equipment reliability, lowers maintenance requirements, and contributes to safe, smooth, and efficient marine operations in both recreational and commercial fleets.

KEY FEATURES

- Lithium complex thickener resists softening and breakdown in marine and high-humidity conditions.
- Excellent resistance to water washout and environmental corrosion, ensuring reliable protection in wet settings.
- NLGI No. 00, 0, 1 & 2 consistency options ensure compatibility with centralized lubrication systems and general-purpose or heavy-duty manual applications.
- Tacky formula clings to components and resists sling-off under load, maintaining a protective film.
- Extreme-pressure protection to prevent metal-to-metal contact and wear under heavy-load conditions.
- Formulated with premium base oils for robust film strength and versatility.

CUSTOMER BENEFITS

- ✓ Reliable lubrication in harbors, shipyards, vessels, marine terminals, and other industrial settings with moisture exposure.
- ✓ Reduces downtime and component replacement due to corrosion and wear, extending equipment lifespan.
- ✓ Performs exceptionally well in submerged, high-humidity, and washdown environments.
- ✓ Suitable for a wide range of applications including deck gear, winches, trailer wheel bearings (non-disc), marine chassis points, and wire rope.
- ✓ Extended service life minimizes re-lubrication frequency and labor costs, enhancing operational efficiency.

APPLICATIONS

LSG Lithium Complex 150 Grease No. 00, 0, 1 & 2 are recommended for:

- Boat trailer hubs, axles, and suspension systems.
- Marine steering linkages and tilt-and-trim systems.
- Dockside winches, cranes, and hoist mechanisms exposed to harsh elements.
- Rudder bearings, hatch hinges, and lifting gear exposed to saltwater.
- Mobile industrial equipment, vessels, or machinery.
- Enclosed gearboxes and chain drives requiring semi-fluid greases.
- Agricultural and construction equipment used in marine and/or flood-prone areas.
- General-purpose lubrication for heavy-duty components operating in wet or corrosive conditions.

PACKAGING:



Cartridges
14 oz.



Pails
35 lbs.



Kegs
120 lbs.



Drums
400 lbs.

TYPICAL PROPERTIES

Property	No. 00	No. 0	No. 1	No. 2	Test Method
NLGI Grade	00	0	1	2	ASTM D217
Worked Penetration (60X)	400–430	355–385	310–340	265–295	ASTM D217
Dropping Point (°C)	-	-	>260	>260	ASTM D2265
Base Oil Viscosity @ 40°C (cSt)	150	150	150	150	ASTM D445
Four Ball Weld Load (kg)	400	400	400	400	ASTM D2596
Four Ball Wear (mm)	0.45	0.45	0.45	0.45	ASTM D2266
Timken OK Load (lbs)	45	45	45	45	ASTM D2509
Water Washout, % @ 175°F	-	-	<3	<3	ASTM D1264
Water Spray Off Test	-	-	<10%	<10%	ASTM D4049
Rust Test	Pass	Pass	Pass	Pass	ASTM D1743
Color	Red	Red	Red	Red	Visual
Texture	Smooth / Tacky	Smooth / Tacky	Smooth / Tacky	Smooth / Tacky	Visual
Salt Water Test	Pass (No Rust)	Pass (No Rust)	Pass (No Rust)	Pass (No Rust)	ASTM D665, Proc. B



Typical properties reflect the expected results within normal production tolerances but do not constitute a specification. Minor variations that do not impact product performance may occur during standard manufacturing processes or at different blending locations. The information provided here is subject to change without notice.

Health and Safety:

When used as intended, this product is not expected to pose any health risks or safety concerns. To minimize exposure, avoid direct skin contact and wear resistant gloves when handling used lubricants. If contact occurs, wash the affected area immediately with soap and water. For comprehensive guidelines on safe handling and detailed product information, please refer to the Material Safety Data Sheet (MSDS) available on our website. <https://lonestargl.com>