



BOLDLY EXCEEDING EXPECTATIONS.

**DYNAMO
LUBRICANTS**

DYNALUX LI COMPLEX

LITHIUM COMPLEX GREASE

Dynalux Li Complex greases are extended service lithium complex greases intended for a wide variety of applications at severe operating conditions. Dynalux Li Complex greases have high water tolerance and mechanical stability combined with excellent high temperature performance.

Dynalux Li Complex greases are ideally suited for application by centralised grease systems due to good resistance to oil separation under pressure and mechanical stability. These greases have a high level of chemical stability and offer excellent protection against rust and corrosion. Dynalux Li

Complex features high dropping points and maximum recommended operating temperature of 140° C (284°F). Dynalux Li Complex greases are available in NLGI grades 00, 0, 1, 2 and 3 with an ISO VG 220 base oil viscosity.

Dynalux Li Complex greases are designed for a wide range of applications including the industrial, automotive, construction and marine sectors. Dynalux Li Complex greases are widely in use in Steel Plants, Mining and Engineering Industries. Dynalux Li Complex greases are available in NLGI 00, 0, 1, 2 and 3.

FEATURES & BENEFITS

Dynalux Li Complex greases are leading members of the Dynamo brand of products, which have gained a reputation for innovation and performance excellence. Dynalux Li Complex greases are high performance products designed by our formulation technologists which benefits:

- Excellent extreme pressure performance.

- Stays in place to lubricate and seal effectively.
- Good mechanical and shear stability.
- Excellent rust and corrosion resistance.
- Superior oxidation and thermal stability.
- Good low temperature performance and pumpability.
- Good high temperature performances.

APPLICATION

Dynalux Li Complex greases are used in a wide range of equipment including industrial, automotive, construction and marine applications. Their blue colour enables easy verification of application.

Dynalux Li Complex 00 and 0 are softer, high-temperature greases recommended for centralized grease application systems, gear lubrication, and where extreme-cold-temperature pumpability is important.

Dynalux Li Complex 1 is specially designed for lubrication of couplings of various designs. It provides effective lubrication and protection against wear in heavily loaded gear couplings and resists separation of the oil from the soap thickener at high rotating speeds.

Dynalux Li Complex 2 offers significant advantages over conventional soap based and clay based greases in terms of shear stability, thermal stability, water resistance and pumpability. It has a high drop point and is suitable for continuous service up to 140°C.

Dynalux Li Complex 3 is recommended for applications where good high temperature and anti-leakage properties are required. It is particularly recommended for severe truck wheel bearing applications or for rolling element bearings subject to vibration, or where higher speeds require a grease with higher consistency to provide channelling characteristics.

MANUFACTURED BY
D.K. LUBRICANTS (M) SDN BHD
SELANGOR D.E., MALAYSIA

INTERNATIONALLY MARKETED BY
KISMAT PETROLEUM TRADING PTE LTD,
SINGAPORE



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SPECIFICATION OF DYNALUX LI COMPLEX

PARAMETERS	00	0	1	2	3
NLGI Grade	00	0	1	2	3
Thickener Type	Li-Complex	Li-Complex	Li-Complex	Li-Complex	Li-Complex
Colour, Visual	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Dark Blue
Penetration, Worked, 25°C, ASTM D 217	415	370	325	280	235
Dropping Point, °C, ASTM D 2265	--	270	280	280	280
Viscosity of Oil, ASTM D 445 cSt @ 40°C	220	220	220	220	220
4-Ball Wear Test, ASTM D 2266, scar, mm	0.5	0.5	0.5	0.5	0.5
4-Ball Weld Load, ASTM D 2596, kg	315	315	315	315	315
Timken OK Load, ASTM D 2509, kg	40	40	40	40	40
Bomb Oxidation, ASTM D 942, Pressure drop at 100 hrs, kPa (psig)	35 (5)	35 (5)	35 (5)	35 (5)	35 (5)
Corrosion Prevention, ASTM D 1743	Pass	Pass	Pass	Pass	Pass
Rust Protection, IP 220-mod., Distilled Water Washout	0,0	0,0	0,0	0,0	0,0
Copper Strip Corrosion, ASTM D 4048	1B	1B	1B	1B	1B
Penetration Consistency Change, Roll Stability, ASTM D 1831, mm/10	--	-15	-15	0	0

These characteristics are typical of current production.

Whilst future production will conform to Dynamo specification, variations in these characteristics may occur.

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