



Almatek® General Purpose Lubricant (1233 & 1235)

Versatile Grease Protects in Harsh Operating Environments

Almatek® General Purpose Lubricant is a technologically advanced lubricant designed to withstand shock loading, pound-out and water washout in friction and anti-friction bearings, chassis points and other grease-lubricated applications. This versatile, tacky grease is specially formulated to give superior protection and long service life in a wide variety of applications in construction, marine, mining, industrial, transport, farm and other heavy-duty equipment.



Beneficial Qualities

Provides Superior Protection

- Minimizes friction, heat and wear
- Protects against shock loading
- Resists rust, corrosion and oxidation

Stays Put for Extended Use

- Clings to metal surfaces
- Won't wash off or pound out of pins, bushes and bearings

Withstands Heat & Cold

- Performs well in broad temperature range
- Has dropping point of up to 177°C (350°F)
- Offers exceptional lubricating qualities even at high operating temps
- NLGI 2 summer grade and NLGI 1 winter grade provide optimum performance year round

Increases Uptime & Saves Money

- Lowers lubrication costs through increased service intervals, longer life and reduced lubricant usage
- Reduces maintenance costs by letting equipment run cooler, with less frictional wear
- Decreases need for replacement parts and repairs
- Increases equipment uptime by keeping machines on the job longer
- Simplifies inventory through its remarkable versatility
- Reduces risk of misapplication because it does so many jobs so well

Available Grades

- NLGI 2 (1233)
- NLGI 1 (1235)



Proprietary Additives

LE's proprietary additives are used exclusively in LE lubricants. Almatek General Purpose Lubricants contain Almasol and Quinplex.

Almasol® solid wear-reducing additive is able to withstand extremely heavy loads, chemical attack and temperatures up to 1,900°F (1,038°C). Almasol is attracted to metal surfaces, forming a microscopic layer but not building on itself or affecting clearances. It minimizes metal-to-metal contact and the resulting friction, heat and wear.

Quinplex® impact-resistant additive contributes to outstanding water resistance, tackiness and enhanced mechanical stability, and helps to form a barrier against corrosion.



Almatek® General Purpose Lubricant

	<u>1233</u>	<u>1235</u>
Thickener Type	Lithium 12-Hydroxy	Lithium 12-Hydroxy
Texture	Stringy	Stringy
Color	Red	Red
NLGI Grade	2	1
Worked 60 Penetration ASTM D217	275	320
Dropping Point °C (°F), ASTM D2265	177 (350)	177 (350)
Base Fluid Characteristics		
Flash Point °C (°F) (COC), ASTM D92	204 (350)	204 (350)
Viscosity @ 100°C, cSt, ASTM D445 (without Quinplex)	11.7	11.7
Viscosity @ 40°C, cSt, ASTM D445 (without Quinplex)	144.0	144.0
Viscosity @ 40°C, cSt, ASTM D445 (with Quinplex)	2,200	2,200
Pour Point °C (°F), ASTM D97	-9 (15)	-9 (15)
Oxidation drop in psi @ 100 hrs, ASTM D942	5	5
Corrosion Prevention DI H2O, ASTM D1743	Pass	Pass
Water Spray-off % loss, ASTM D4049	6	13.85
Water Wash-out @ 37.8°C (100°F), % loss, ASTM D1264	10.4	4.82

Recommendations

- Suitable for use in all wheel bearings, except those with disc brakes or heavily loaded prime mover or trailer bearings.
- 1235 can be used in high-speed anti-friction bearings up to 6,000 rpm.
- 1233 can be used in high-speed anti-friction bearings up to 3,000 rpm.

Typical Applications

Applications subjected to shock loading or water washout such as:

- Pins and bushes on construction, earthmoving and agricultural equipment
- Chassis points on road transport
- Fixed plant in quarries
- Industrial applications – conveyor bearings
- Wide range of general anti-friction and plain bearing applications in all industries



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