



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



Almatek®, Almasol® and Quinplex® are registered trademarks of Lubrication Engineers, Inc.

1233/1235 12-13