Product Information

Almatek® General Purpose Lubricant (1233 & 1235)



Versatile Grease for Harsh Marine 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, wire ropes and other grease-lubricated marine applications. This versatile, tacky grease is specially formulated to give superior protection and long service life in a wide variety of marine applications.



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, bearings or wire ropes

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.



Technical Data



Almatek® General Purpose Lubricant

| | 1233 | 1235 |
|--|--------------------|--------------------|
| Thickener Type | Lithium 12-Hydroxy | Lithium 12-Hydroxy |
| Texture | Stringy | Stringy |
| Colour | 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 (400) | 204 (400) |
| Viscosity @ 100°C, cSt, ASTM D445 (without Quinplex) | 11.7 | 11.7 |
| Viscosity @ 40°C, cSt, ASTM D445 (without Quinplex) | 144 | 144 |
| 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 H20, 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

- 1235 can be used in high-speed anti-friction bearings up to 6,000 rpm.
- 1235 can be applied to wire ropes using the Viper Mk II Wire Rope Lubricator.
- 1233 can be used in high-speed anti-friction bearings up to 3,000 rpm.

Typical Marine Applications

Applications subjected to shock loading or water washout such as:

- · Pins and bushes on marine equipment
- Wide range of general anti-friction and plain bearing applications in the marine sector
- Marine wire ropes







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1233/1235