

613

Moly Grease

TECHNICAL
CHESTERTON®
PRODUCTS

Description

Chesterton® 613 Moly Grease is a high-performance, cost-effective lubricant that can withstand extreme temperatures and pressures for a wide range of high and low-speed applications. Fortified with molybdenum disulfide, it can handle the toughest of lubricating jobs and last significantly longer than conventional greases.

Wear, galling or seizing of greased surfaces can occur even when using high-performance greases, especially when heavy pressures squeeze the grease out of lubricated areas or when shocks/vibrations create temporary voids in the grease's lubricating film. During these extreme pressure conditions, the molybdenum disulfide particles in 613 Moly Grease are left behind on the surface in a thin, adherent, lubricating film. The unique, plate-like geometry of the particles ensures that parts glide smoothly over each other, preventing wear, galling and eventual seizing, until further applications of the grease can be applied.

The product has excellent resistance to water washout, a condition that plagues and shortens the life of many conventional greases and necessitates constant re-lubrication. Since 613 Moly Grease ensures continuous, longer-lasting lubrication and protection, fewer applications are required. Less applications means less maintenance costs and less production downtime. The product's superior mechanical stability assures that it will not break down or thin out and thus not leak out of the bearings under sustained heavy workloads.

Composition

613 Moly Grease begins with a highly refined, petroleum oil base, thickened with lithium 1,2 hydroxy stearate. A proprietary additive package enhances its performance, extends its protective lubricating life and increases the efficiency of the lubricated machinery, making it more cost-effective than other greases on the market today.

Typical Physical Properties

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| Consistency, NLGI | 2 |
| Specific gravity | 0.9 |
| Oil base | Highly refined petroleum |
| Thickener | Lithium |
| Molybdenum disulfide Particle size (average) | 0.75 micron |
| Dropping point ASTM D 566 | 199°C (390°F) |
| Operating temperature range | -18°C to 138°C (0 to 280°F) |
| Penetration ASTM D 217 | 288-299 |
| Rust preventative properties ASTM D 1743 | Passed |
| Four Ball Wear Test ASTM D 2266 1 hr, 54°C (130°F), 1800 rpm, 20 kg, scar diameter | 0,35 mm |
| Oxidation stability ASTM D 942 pressure drop 100 hrs | 0,35 kg/cm ² (5 psi) |
| 500 hrs | 1,19 kg/cm ² (17 psi) |

- Molybdenum disulfide particles provide excellent solid-film lubrication long after the grease extrudes under severe pressure conditions. The solids are well-recognized for giving an extra performance boost to oil-based liquid lubricants and greases, preventing the metal-to-metal contact that causes wear, galling and eventual seize-up.
- Extreme pressure agents increase the product's ability to withstand shocks and vibrations common in startup and shutdown.
- Oxidation inhibitors prevent the grease from oxidizing, becoming crusty, crystal-like and thus useless.
- Rust and corrosion inhibiting additives provide a strong, protective coating for parts and machinery.

Features

- Molybdenum disulfide for added boost under extreme conditions
- Excellent mechanical stability
- Corrosion inhibitors protect lubricated equipment
- Excellent resistance to water washout
- Special additives for longer life, continuous lubrication

Benefits

- Reduce labor, maintenance costs
- Reduce number of reapplications; lower product costs
- Save the cost of replacement parts
- Prolong the life of machinery and parts

Applications

613 Moly Grease lubricates all types of equipment in a wide range of applications that require a high-quality, long-lasting, cost-effective grease.* It is especially effective on equipment subjected to extreme pressures during startup, shutdown or in operation. Use 613 Moly Grease for manufacturing and processing equipment.

- Conveyors
- Mining equipment
- Plain and anti-friction bearings
- Small, exposed gears
- Cams, guides, ways, slides
- Press fittings and couplings
- Electric motors
- Fans, blowers
- Pumps, generators
- Presses, shears, hinges

* For applications involving incidental food contact use Chesterton® 622 White Grease or Chesterton® 629 High Temperature White Grease.

Directions

Apply 613 Moly Grease with a grease gun, or brush on for local applications. Before using, wipe grease fittings to remove contamination. Do not overload bearings. No need to overapply grease. Use only enough grease to fill voids. Keep grease container closed when not in use. Reapply at regular intervals.

Safety

Before using this product, review the Material Safety Data Sheet (MSDS) or the appropriate safety sheet in your area.



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