CHESTERTON
Global Solutions, Local Service.

613
MOLY GREASE





PRODUCT DATA SHEET

APPLICATION AREAS

- *Mining Equipment*
- *Fracking and Oil Equipment*
- *Pumps*
- *Bearings*
- *Conveyors*
- *Generators*
- *Presses and Shears*



Before using this product, please refer to Safety Data Sheet (SDS).

KEY FEATURES AND BENEFITS

- Molybdenum disulfide for added boost under extreme conditions
- Excellent mechanical stability
- Excellent resistance to water washout
- Prolongs the life of parts and machinery
- Contains inhibitors to protect lubricated equipment

PACKAGING

400 g
18 kg

DIRECTIONS

Apply 613 Moly Grease with a grease gun, or brush on for local applications. Before using, wipe grease fittings to remove contamination. Keep grease container closed when not in use. Reapply at regular intervals.

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.

During these extreme pressure conditions, the molybdenum disulfide particles in 613 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.

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.

TYPICAL PHYSICAL PROPERTIES

Appearance	Black
Consistency, NLGI	2
Texture	Smooth, tacky
Thickener	Lithium complex
Specific Gravity @ 25°C (77°F)	0.90 – 0.95
Dropping Point (ASTM D 2265, DIN 51 801/1)	304°C (579°F)
Penetration (ASTM D 217, DIN ISO 2137)	288 – 299
Oil Base	Highly refined petroleum
Timken OK Load (ASTM D 2509)	27.3 kg (60 lbs.)
Four Ball Wear Test (ASTM D 2266, DIN 51 350/5) Scar Diameter 40kg, 1200 rpm, 75°C, 1hr	0.50 mm
Four Ball Wear Test (ASTM D 2596, DIN 51 350/4) Weld Load Load Wear Index	 500 kfg (4903 N) 70
Operating Temperature (above 180°C, increased lubrication frequency is required)	18°C – 150°C (0°F – 302°F)
Water Washout (ASTM D 1264) @ 80°C	<1.5%
Water Spray-off (ASTM D 4049)	20%

Technical information continues on page 2

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TYPICAL PHYSICAL PROPERTIES (CONT.)	
Oil Separation (ASTM D 1742), % loss	<1%
Lubricating Additives	non-heavy metal, extreme pressure and anti-wear, anti-fretting additives, surface reactive anti-rust and corrosion additives, oxidation inhibitors
Lubricating Solids	Molybdenum disulfide 3%
Bomb Oxidation (ASTM D 942) psi drop, 100 hrs	5 psi
Copper Corrosion (ASTM D 4048, DIN 51 811)	1A
ISO/DIN Classification	ISO-L-XE E I B1/DIN 51 502-K FLP 1 HC P1-50
Base Oil Viscosity (ASTM 445) @ 40°C @ 100°C	 170 cSt 16 cSt
Viscosity Index, VI	100

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CHESTERTON
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