



Molylube[®] Mill Gear Grease

PRODUCT DESCRIPTION

Bel-Ray[®] Molylube[®] Mill Gear Grease is a high-performance mineral oil based aluminum complex open gear grease. Molylube Mill Gear Grease is formulated to provide superior lubrication of Type 2 open gear systems. Type 2 open gear systems are defined as those drive systems used to transmit a continuous load (load, speed and direction are generally fixed). Molylube Mill Gear Grease is an NLGI 00 grease compounded with molybdenum disulfide and high purity synthetic graphite lubricating solids, Extreme Pressure and anti-wear additives and rust and corrosion inhibitors. Molylube Mill Gear Grease is designed to excel in applications where drainage of the spent lubricant is a primary consideration such as grinding mills.

PRODUCT FEATURES and BENEFITS

- Superior drainability- spent product readily drains from gear shrouds and flows to collection systems
- Enhanced extreme pressure and anti-wear properties maximizes component useful life, helping to reduce replacement part costs and lost production time
- Aluminum Complex Thickener
- Excellent water resistance
- Outstanding mechanical and thermal stability for superior film retention
- Environmentally responsible lubricant that does not contain heavy metals or other hazardous components making it safe and easy to use and to dispose.

APPLICATIONS

Bel-Ray Molylube Mill Gear Grease is recommended for use in mills, kilns, and type 2 open gear systems.

DISTRIBUTED BY:

Calumet Branded Products, LLC
1060 N Capitol Ave
Suite 6-401
Indianapolis, IN 46204
Technical Services: 317-328-5660
www.belray.com

To the best of our knowledge, the information contained herein is accurate, but is given without warranty or guarantee. We assume no liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any information or material for the use contemplated, the name in use and whether there is any infringement of patents is the sole responsibility of the user.

All trademarks are owned by one or more affiliates within the Calumet, Inc. organization, unless otherwise specified.

© 2026 Calumet, Inc.

4/30/2026

PRODUCT DATA

Typical Properties		
Property	Test Method	
NLGI Grade		00
Thickener Type		Aluminum Complex
Texture		Tacky
Worked Penetration @ 25°C, 60 strokes (0.1 mm)	ASTM D217	415
Base Fluid Viscosity @ 40°C (cSt)	ASTM D445	6440
Base Fluid Viscosity @ 100°C (cSt)	ASTM D445	206
Base Fluid Viscosity Index	ASTM D2270	126
Copper Corrosion, 3 h @ 100°C (Rating)	ASTM D4048	1b
Lubricating Solids Type		Molybdenum Disulfide & Graphite
4-Ball EP Test, Weld Load (kgf)	ASTM D2596	800
4-Ball EP Test, Load-Wear Index (kgf)	ASTM D2596	145
FZG, Failure Load Stage	FZG A/2.76/50	>12
FZG, Mass Loss (mg/kWh)	FZG A/2.76/50	0.21
Useful Temperature Range, °C (°F)		-5 to 80 (23 to 176)
Color		Gray

HEALTH and SAFETY

Health and safety recommendations for products can be found on the Safety Data Sheet (SDS) at www.belray.com