



## Clear Gear™ Lubricant

### PRODUCT DESCRIPTION

Bel-Ray® Clear Gear™ Lubricant is a high viscosity, synthetic fluid gear lubricant specifically formulated to provide superior lubrication of Type 2 open gear systems used in mills, kilns, driers, pelletizers, agglomerators and similar equipment. Clear Gear Lubricant is formulated to operate in the full fluid film or hydrodynamic mode of lubrication virtually eliminating metal-to-metal contact. Clear Gear Lubricant All Grades are approved by Metso Minerals. Clear Gear Lubricant Medium and Heavy are approved by Outotec. Clear Gear Lubricant exceeds ANSI/AGMA 9005-E02 Specification Annex D minimum viscosity recommendations for open gearing - intermittent lubricant application.

### PRODUCT FEATURES

- Cleans gears and shrouds
- Friction modified
- Completely fluid

### BENEFITS

- Removes hard open gear lubricant residues from gears within a few shifts and from shrouds within a few weeks
- Reduces consumption up to 50% or more. Reduces purchasing and inventory costs
- Easily drains to waste
- Ensures easy gear tooth inspections - both dynamic and static. Gives the impression of a clean, well-maintained mill area
- Proven to reduce energy consumption and pinion temperature

### APPLICATIONS

- Mills
- Kilns
- Driers
- Type 2 open gear systems

**DISTRIBUTED BY:**  
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5/27/2026



## PRODUCT DATA

Property	Typical Properties			
	Test Method	Medium	Standard	Heavy
Viscosity @ 40°C (cSt)	ASTM D445	10,859	16,095	28,204
Viscosity @ 100°C (cSt)	ASTM D445	473	673	998
Viscosity Index	ASTM D2270	194	211	219
Pour Point, °C (°F)	ASTM D97	-6 (21)	0 (32)	3 (37)
4-Ball EP Test, Weld Load (kgf)	ASTM D2783	250	250	250
4-Ball EP Test, Load-Wear Index (kgf)	ASTM D2783	66.5	66.5	66.5
4-Ball Wear Test, @ 1200 rpm, 40 kgf, 60 min, 75°C Scar Diameter (mm)	ASTM D4172	0.42	0.42	0.42
Timken EP Test, OK Load (lbs)	ASTM D2782	40.8 (90)	40.8 (90)	40.8 (90)
FZG Scuffing Test, A/8.3/90, Failure Load Stage	ASTM D5182	>12	>12	>12
FZG, Mass Loss (mg/kWh)	FZG A/2.76/50	<0.2	<0.2	<0.2
Useful Temperature Range, °C (°F)		-3 to 40 (27 to 77)	0 to 50 (32 to 122)	6 to 50 (43 to 122)
Color		Straw to Light Green	Straw to Light Green	Straw to Light Green

## HEALTH and SAFETY

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

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