

# Product Data Sheet

## DYNAGEAR EXTRA

ALL SEASON, MULTIPURPOSE LUBRICANT FOR OPEN GEARS

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DYNAGEAR EXTRA offers the following features and benefits:

- ◆ Formulated without chlorinated or hydrocarbon solvents.
- ◆ Outstanding load-carrying properties
- ◆ Non asphaltic
- ◆ Solvent-free environmentally responsible lubricant in open gear applications.

### *Primary Applications*

DYNAGEAR EXTRA is recommended for Shovel dipper stick and rack, swing gears (circle), propel system bushings, crowd gears, sheave bearings and all undercarriage lubrication points. On draglines all open gears, bushings and bearings, including hoist gears and drag gears. Enclosed swing gear cases of both draglines and shovels, provided the gear cases are converted to a "dry sump" configuration and equipped with spray or drip nozzles. DYNAGEAR EXTRA is recommended for all season applications where ambient temperature drop below -20°C.

### *Performance Features*

DYNAGEAR EXTRA open gear lubricant is a premium multi-purpose grease providing a tenacious lubricant film that firmly adheres to lubricated surfaces. Because the formulation is solvent free, run-off that can occur during application is significantly reduced improving safety and environmental concerns. DYNAGEAR EXTRA is formulated to provide outstanding service in a variety of industrial open gear applications; over an ambient and operating range of -40°C (-40°F) to 40°C (104°F). Dependable protection over a wide-range of operating conditions can help extend equipment life.

DYNAGEAR EXTRA is certified against the Bucyrus OGL - Open Gear Lubricant (SD4713) specification.

Powerful solid lubricants are used in the DYNAGEAR EXTRA to provide excellent load

carrying characteristics as measured by the industry standard 4-ball wear test.

DYNAGEAR EXTRA is formulated with effective anti-rust, anti-corrosion and oxidation inhibitors.

DYNAGEAR EXTRA offers exceptional water resistance. Moderate amounts of water can be absorbed with little or no affect on the NLGI penetration.

Base oils used in DYNAGEAR EXTRA contain no asphalt virtually eliminating lubricant build-up on gears and gear tooth roots. This contributes to easier, less time consuming clean-ups and reduces the likelihood of misalignment problems.

Because the DYNAGEAR EXTRA does not contain volatile solvents, flammability is equivalent to any other mineral-oil-based lubricant.

### **Precautions**

DYNAGEAR EXTRA is manufactured from high quality petroleum base stocks, carefully blended with selected soaps and additives. As with all of our products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapour inhalation. High-pressure injection of any grease under the skin can cause serious delayed soft tissue damage and should be treated immediately by a physician. To avoid injection injuries, inspect greasing equipment regularly for worn hoses and fittings. Keep fingers away from the nozzle and ensure the nozzle is firmly in place before discharging the grease. Please refer to the Material Safety Data Sheet for further information.

Note: This product is not controlled under Canadian WHMIS legislation.

### **Typical Properties**

	<b>DYNAGEAR EXTRA</b>
Operating Temp, °C	-40 to +40
Min. Dispensing Temp., °C	-40
Worked Pen. @ 25°C	400
Dropping Pt., °C	175
Oil Phase Viscosity	
cSt @ 40°C	680
cSt @ 100 °C	60
Timken OK Load, kg	25
4 Ball EP, kg	
Weld	800
LWI	144
4 Ball Wear Scar Diameter, mm	0.55
Timken Retention (13.6 kg/30min.)	Pass
Lincoln Ventmeter	
psi @ -40°C	200
Apparent Viscosity, 20 sec. <sup>-1</sup> shear, P	
@ -20°C	---
@ -40°C	10,000

*The values shown above are representative of current production. Some are controlled by manufacturing and performance specifications while others are not. All may vary within modest ranges.*