

TECHNICAL DATA SHEET

OPEN GEAR LUBE



DESCRIPTION

OPEN GEAR LUBE range is a specially formulated high-performance, extreme pressure lubricant designed for use on open gears and other highly loaded components. It is manufactured from high viscosity oil, solid lubricants, and carefully selected additives. Open Gear Lube is a premium grade, adhesive, residual compounded, extreme pressure multi - purpose open gear lubricant suited for heavily loaded open gears, semi-closed gears on mining shovels, draglines and excavator equipment commonly found in underground or surface mines and quarries. It is a selected blend of high-quality base fluids, anti-wear, extreme pressure additives, antioxidants, molybdenum disulfide, solid lubricants, and corrosion inhibitors. Its strong adhesive film resists squeeze out, allowing the product to cling tenaciously to gears; recommended for equipment operating under the most punishing conditions and in the most hostile environments.

APPLICATIONS

Recommended for heavily loaded open gears, semi-closed gears on mining shovels, draglines and excavator equipment commonly found in underground or surface mines and quarries. Excellent for large, slow moving open gears, steel cables, wire ropes, open gears in rotary kilns, overflow mills, and similar equipment commonly found in cement, steel, or power plants, or on stationary rotating machinery such as tube mills, SAG mills, ball/rod mills, and paper mills. It can also be used in the lubrication of sleeve type bushings and slow moving, heavily loaded bearings, circle rails, and rollers.

SUMMARY OF BENEFITS

- Contain molybdenum disulfide and solid lubricants
- Excellent adhesion to metal surfaces, good physical and mechanical stability ensuring a durable, strong, tenacious coating to lubricate and to protect the gear teeth
- Excellent anti-wear and extreme pressure properties providing exceptional load carrying capabilities to heavily loaded open gears, bearings and bushings
- Extreme pressure properties for protection under heavy or shock loads, extending equipment life
- Highly resistant to water washout, rain, snow; Excellent anti-corrosion properties to protect gear teeth, steel cables & etc. from corrosion and wear
- Meets the requirements of equipment manufacturers CAT, Komatsu as well as P&H Material Specification 520

TYPICAL CHARACTERISTICS

OPEN GEAR LUBE	ARCTIC	MEDIUM	HD
NLGI	THICK FLUID	000	0
APPEARANCE	Black & Tacky	Black & Tacky	Black & Tacky
BASE OIL VISCOSITY @40°C, cSt	1500	2500	4500
PENETRATION, WORKED @ 25°C, 0.1mm	-	460	370
DROPPING POINT, °C	-	160	188
COPPER CORROSION (3hrs, 100°C)	PASS	PASS	PASS
RUST TEST	PASS	PASS	PASS
FOUR BALL EP, WELD LOAD, kgf	800	800	800
FOUR BALL EP, LOAD WEAR INDEX, kgf	120	120	120
FOUR BALL EP, WEAR SCAR, mm	0,65	0,65	0,65
OPERATING TEMPERATURE RANGE	-45 to +10°C	-30 to +40°C	-10 to +120°C

Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute any legal liability.

STORAGE INSTRUCTIONS & HEALTH, SAFETY AND ENVIRONMENT INFORMATION

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C. Health, safety and environmental information is provided for this product in the relevant Materials Safety Data Sheet, which can be obtained by contacting Gulf Western Oil on: 02 9673 9600.

Nov 2025

GULF WESTERN PREMIUM QUALITY LUBRICATING OILS (AUST) PTY LTD

Head Office: 92-96 Links Road, St Marys NSW 2760 - PO BOX 515 Kingswood, NSW 2747
Phone: 02 9673 9600 - Fax: 02 9623 6466 - Email: sales@gulfwestern.com.au - Web: www.gulfwestern.com.au