

KLONDIKE Full Synthetic Industrial EP Gear Lubricants: ISO 150, 220, 320, 460, 680



PRODUCT DESCRIPTION

KLONDIKE Full Synthetic Industrial EP Gear Lubricants are premium synthetic formulations designed for maximum performance and protection in many types of industrial bearing and gear applications operating in very heavy duty and shock-loaded conditions.

APPLICATIONS

KLONDIKE Full Synthetic Industrial EP Gear Lubricants excel in the lubrication of heavily loaded enclosed gear drives and reducers on drives of all sizes. These gear sets include a variety of types such as spur, bevel, herringbone, planetary, and worm designs. Full Synthetic Industrial EP Gear Lubricants are suitable for use with bath, splash, circulating, and spray-type lubrication systems.

KLONDIKE Full Synthetic Industrial EP Gear Lubricants are ideal for applications such as steel mills where gear cases are often near red-hot steel as well as in circulating systems where water contamination is a hazard. KLONDIKE Full Synthetic Industrial EP Gear Lubricants are suitable for a wide variety of industrial and mobile equipment, gear systems, chain drives, sprockets, plain and anti-friction bearings, slide guides, and flexible coupling joints as well as transmission gear cases in open pit and underground mining machinery.

KLONDIKE Full Synthetic Industrial EP Gear Lubricants are the ultimate high performance gear oil choice for most types of enclosed industrial gearboxes, especially those running continuously in extreme temperatures or under sustained severe service conditions, such as heavy loads or low speeds. Full synthetic technology promotes extended service life for applications where conventional oil products may deteriorate and possibly lead to premature downtime.



FEATURES AND BENEFITS

KLONDIKE Full Synthetic Industrial EP Gear Lubricants are produced exclusively from premium synthetic base oils and advanced additive technology to deliver outstanding anti-wear and extreme pressure protection in sustained, long-life applications. These oils have excellent thermal and oxidation stability allowing them to resist thickening produced by sustained, high temperature operation. Full Synthetic Industrial EP Gear Lubricants are non-corrosive to gear and bearing materials such as steel, copper, bronze, Babbitt, and cadmium-nickel. These advanced, full synthetic oils provide superior foam resistance, water separation, and low temperature fluidity allowing their use in gears and bearings exposed to a wide range of extreme climatic conditions.

KLONDIKE Full Synthetic Industrial EP Gear Lubricants tenaciously hold a strong film of lubricant on metal surfaces. Along with foam control, this lubricant film maximizes gear protection and ensures extended service life in the most arduous applications.

The key benefits of the full synthetic formulation include maximum fluid and equipment life, outstanding low temperature fluidity, and low coefficient of friction to ensure the greatest possible operating efficiency and energy saving potential.

KLONDIKE Full Synthetic Industrial EP Gear Lubricants provides value through the following benefits:

- **Long service life** – full synthetic formula allows extended drain intervals resulting in significant cost savings.
- **Excellent thermal and oxidation stability** – full synthetic base oil ensures outstanding product stability even in the presence of high loads and extreme temperatures.
- **Corrosion protection** – maximum corrosion protection of ferrous and non-ferrous metals.
- **Water separation** – water/oil emulsions are prevented, which minimizes corrosive damage.
- **Low foam** – maintains protective lubricant film in all operating conditions.



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SPECIFICATIONS AND APPROVALS

KLONDIKE Full Synthetic Industrial EP Gear Lubricants meet the requirements of and are recommended for use in the following applications where the appropriate viscosity is specified:

- ANSI/AGMA 9005-E02 EP
- AIST 224 (formerly US Steel 224) (ISO 150 - ISO 460)
- DIN 51517 Part 3
- David Brown S1.53.101 Type E
- ISO 12925 – Type 1 CKC
- Joy TO-SMEP (ISO 220) and TO-SHEP (ISO 320)
- MAG IAS (formerly Cincinnati Machine P-35 (ISO460), P-59 (ISO 320), P-74 (ISO 220) P-77 (ISO 150))
- Siemens Industrial Gear Revision 13

TYPICAL TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680
AGMA Grade		4 EP	5 EP	6 EP	7 EP	8 EP
API Gravity	ASTM D1298	28.6	29.3	28.0	26.2	25.2
Viscosity @ 40°C cSt	ASTM D445	150	220	320	460	680
Viscosity @ 100°C cSt		21.2	28.6	39.2	53.1	72.2
Viscosity Index	ASTM D2270	166	168	174	180	184
Flash Point, °C	ASTM D92	240	242	242	245	252
Pour Point, °C	ASTM D97	-48	-42	-40	-38	-36
Micropitting Load Stage @ 90°C	FVA 54	>10	>10	>10	>10	>10
Micropitting GFT Classification	FVA 54	High	High	High	High	High
FZG Failure Stage (A/8.3/90)	FVA 54	>12	>12	>12	>12	>12
FZG Failure Stage (A/16.6/90)	FVA 54	>12	>12	>12	>12	>12
FAG FE-8 test (DIN 51589-3)	FVA 54	Pass	Pass	Pass	Pass	pass
Four Ball EP Weld load, kg (min)	ASTM D2783	250	250	250	250	250
Load Wear Index, kg	ASTM D2783	54	55	58	58	55
Falex B (Failure), lbf	ASTM D3233	3250	3250	3250	3750	3750
Timken OK Load, lbs	ASTM D2782	>90	>90	>90	>90	>90

All stated physical properties are typical of standard production and may vary.



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PRODUCT NUMBERS

ISO 150 EP FULL SYNTHETIC	Pail: 18.9 L / 5 GAL	KL-GL6080
	Drum: 208 L / 55 GAL	KL-GL6090
	Tote: 1040 L / 275 GAL	KL-GL6095
	Bulk	KL-GL6099

ISO 680 EP FULL SYNTHETIC	Pail: 18.9 L / 5 GAL	KL-GL6880
	Drum: 208 L / 55 GAL	KL-GL6890
	Tote: 1040 L / 275 GAL	KL-GL6895
	Bulk	KL-GL6899

ISO 220 EP FULL SYNTHETIC	Pail: 18.9 L / 5 GAL	KL-GL6280
	Drum: 208 L / 55 GAL	KL-GL6290
	Tote: 1040 L / 275 GAL	KL-GL6295
	Bulk	KL-GL6299

ISO 320 EP FULL SYNTHETIC	Pail: 18.9 L / 5 GAL	KL-GL6480
	Drum: 208 L / 55 GAL	KL-GL6490
	Tote: 1040 L / 275 GAL	KL-GL6495
	Bulk	KL-GL6499

ISO 460 EP FULL SYNTHETIC	Pail: 18.9 L / 5 GAL	KL-GL6680
	Drum: 208 L / 55 GAL	KL-GL6690
	Tote: 1040 L / 275 GAL	KL-GL6695
	Bulk	KL-GL6699

HEALTH AND SAFETY

This product is not expected to have adverse health implications when used for its intended application. For detailed information on safe handling of this product, refer to its Material Safety Data Sheet (MSDS). To obtain an MSDS on this or any other KLONDIKE product, please visit www.klondikelubricants.com or call 1-877-293-4691. When disposing of used product, be responsible to the environment.

BRAVING THE FORCE OF MOVEMENT

KLONDIKE stands for robust, reliable, high quality products tailored to suit the requirements of the on- and off-road heavy duty, automotive and industrial markets. Our solutions span from trend-setting retail lubricants through small-batch custom formulations to large bulk orders ready for immediate delivery.

The extensive KLONDIKE product range includes premium oils, lubricants, greases, chemicals and specialty fluids formulated with virgin base oils and protective inhibitors. Designed to handle the most extreme climates and operating conditions, the KLONDIKE products protect and extend the life of your equipment, optimize performance and improve productivity while meeting and exceeding industry standards and specifications.

KLONDIKE Lubricants Corporation

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