



Product Data Sheet



Royal Centurion EP Gear Oil

High Performance Gear Oil

Royal Centurion EP Gear Oils are a new generation of industrial gear oils embodied with an innovative additive package providing outstanding extreme pressure, load carrying, friction reduction, superb thermal and oxidation stability, excellent water resistance and demulsibility, and longer gear service life.

Royal Centurion EP Gear Oils have been carefully engineered with special proprietary friction modifiers thus providing extra wear protection, while operating longer under extreme heavy loads, including boundary lubrication regimes. This super gear oil provides superior anti-friction properties and energy savings, thus lowering operating temperatures leading to longer gear life. Another unique feature is this gear oil will not settle over long periods of time, providing complete protection and optimal performance of gears, bearings, and seals.

These high performance gear oils are also formulated with the finest quality base oils and are incorporated with proven organic polymeric compounds that will not shear out under stress. They provide superior adherence to gear teeth, and offer longer service life even in highly contaminated environments.

Product Features:

- Outstanding anti-wear and extreme pressure characteristics
- Enhanced thermal and oxidation stability, suitable for wide operating temperatures
- Superior corrosion resistance to ferrous and non-ferrous part
- Excellent resistance to water, demulsibility and anti-foaming characteristics
- Excellent seal compatibility and anti-friction properties

Customer Benefits:

- Provides longer service gear life compared to conventional gear oils
- Suitable for wide range of different metallurgical gear boxes
- Easy to separate water from oil and work effectively in water borne applications

Applications:

- **Royal Centurion EP Gear Oil** is recommended for wide range of industrial gears: spur, helical, bevel, worm gears, conveyers, agitators, pumps, dryers, extruders, fans, mixers, pulpers, screens, and other heavily loaded gears systems used in construction, mining, quarrying, agriculture, steel mills, paper mills, power plants, oil fields, among many other industries. These oils are equally



recommended for non-gear applications like couplings, cranes, screws and heavily loaded bearings. These oils are suitable for splash and circulation lubrication systems.



Typical Properties

Royal Centurion EP Gear Oil						
Product Number	361	362	363	366	367	Test Method
ISO Grade	150	220	320	460	680	-
SAE Grade	80W-90	80W-110	85W-140	85W-190	85W-250	-
Brookfield Viscosity, cP	~36000 (-26°C)	~70000 (-26°C)	~20000 (-12°C)	~30000 (-12°C)	~50000 (-12°C)	ASTM 2983
AGMA Rating	4 EP	5 EP	6 EP	7 EP	8 EP	-
Specific Gravity	0.88	0.89	0.89	0.89	0.89	-
Flash Point °C	250	250	250	245	240	ASTM D92
Pour Point °C	- 40	- 40	- 35	- 35	-35	ASTM D97
Color	Red	Red	Red	Red	Red	Visual
Viscosity SUS @100 °F	783	1151	1678	2420	3591	-
Viscosity SUS @ 210 °F	84	110	147	194	261	-
Viscosity@100°C cSt	16	22	30	40	54	ASTM D7042
Viscosity@40°C cSt	150	220	320	460	680	ASTM D445
Viscosity Index (VI)	111	121	129	134	139	-
Copper Corrosion, 3hrs (100°C)	1a	1a	1a	1a	1a	ASTM D130
4-Ball EP, Kg	400	400	400	400	400	ASTM D2783
Timken OK, Lbs	70	70	70	70	70	ASTM D2782

These properties are typical of the current production. Variations that do not affect product performance are to be expected depending on blending and manufacturing locations. The information above is subject to change without notice.

Health and Safety:

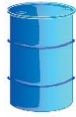
This product is unlikely to have any adverse health implications or safety hazards when used for its intended application. Avoid contact with skin, use resistant gloves when handling used oil. If skin comes in contact wash immediately with soap and water. For complete information on safe handling and product characteristics please refer to the Safety Data Sheet (SDS) found on our website. www.royalmfg.com or call (918)-584-2671.

Packaging options:





5 Gal. Pails



55 Gal. Drums



275/300 Gal. Totes



>2,000 Gal. Bulk

