

Shell OMALA® Oils RL

Synthetic bearing and circulation oil

Shell OMALA® Oils RL are high performance synthetic bearing and circulation lubricant based on synthesized hydrocarbon fluids. They offer outstanding lubrication performance under severe operating conditions, including improved energy efficiency and long service life.

Performance Features and Benefits

- **Excellent anti-wear performance providing long component life**
Provides high levels of wear protection for rolling element bearings and moderately loaded gearboxes, providing benefits over mineral oil-based products in terms of gear and bearing component life.
- **Excellent oxidation and thermal stability extending lubricant life**
Resists the formation of harmful products of oxidation at high operating temperatures, improving system cleanliness and therefore reliability of the equipment.
- **Longer service intervals**
Extended component and lubricant life offers the opportunity to extend service intervals and to reduce maintenance and disposal costs.
- **Superior lubricant performance improving gear efficiency**
Offers improved low temperature performance and reduced change in viscosity with increase in temperature in comparison to mineral oil-based products. This provides better lubrication at low start-up temperatures and the opportunity for energy savings by optimizing the viscosity for normal operating conditions.
- **Outstanding rust and corrosion protection of all metal surfaces**
- **Rapid water shedding and air release performance**

Main Applications

- Moderately loaded enclosed industrial reduction gearboxes operating under arduous conditions, such as very low or elevated temperatures and wide temperature variations
- Particularly recommended for certain 'lubricated-for-life' systems
- Plain and rolling element bearings
- Oil circulation systems

Advice on applications not covered in this handbook may be obtained from your Shell representative.

Specifications, Approvals, and Recommendations

Meets the ISO 12925-1 Type CKS specification.

Compatibility & Miscibility

Shell OMALA® Oils RL is compatible with all seal materials and paints normally specified for use with mineral oils.

Handling and Safety Information

For information on the safe handling, storage, or use of this product, refer to its Material Safety Data Sheet at <http://www.epc.shell.com/>. If you are a Shell Distributor, please call 1+800-332-6457 for all of your service needs. All other customers please call 1+800-237-8645 for all of your service needs.

Protect the Environment

Do not discharge into drains, soil, or water.

Typical Physical Characteristics

Shell OMALA® Oils RL			68	150	220	320	460	680
Kinematic Viscosity	@ 40 °C	cSt	68	150	220	320	460	680
	@ 100 °C	cSt	7.70	19.8	25.9	33.8	45.5	61.9
Viscosity Index			130	149	149	148	155	160
Flash Point (COC)		°C	254	236	240	270	274	286
Pour Point		°C	-54	-54	-48	-45	-42	-39
Specific Gravity	@ 15 °C		0.857	0.848	0.853	0.854	0.855	0.857
FZG	failure load stage		>12	>12	>12	>12	>12	>12

These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.