



Optigear RMO

Synthetic high performance and long-term

Description

OPTIGEAR[™] RMO is a multi-grade, high performance and long-term gear oil, especially developed for drive units in railborne traffic and machine construction at extreme climatic conditions. The MICROFLUX TRANS[™] additive combination is solid-free, adjusts itself to varying conditions and actively reduces wear even under the most difficult operating conditions. Extremely low temperatures down to - 40°C/- 40°F are mastered without preheating the gears.

Application

- All kinds of spur gearings even when subjected to the most extreme loads.
- Bevel gear pairs, also conical (hypoid) and at high changing loads.
- All types of rolling bearings even at low temperatures.
- Dip lubrication at high speeds as well as injection and oil mist lubrication.

Advantages

- High load carrying capacity and wear protection.
- Reliable oil supply of bearings at low temperatures.
- High scuffing load capacity.
- Outstanding long operating periods even under extreme conditions.
- Lowering of coefficient of friction and operating temperature.
- Combines good high-temperature with excellent low-temperature properties.
- Reduced running-in period of new drives.
- Good corrosion protection.
- Long service life of gears.

Typical Characteristics

Name	Method	Units	Optigear RMO
Colour	ASTM D1500	-	green - brown
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m³	879
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D 445	mm²/s	150
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D 445	mm²/s	18
Viscosity Index	ISO 2909 / ASTM D2270	-	133
Pour Point	ISO 3016 / ASTM D97	°C/°F	-39/-38.2
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	204/399
FZG Gear Scuffing test - A/16.6/90	ISO 14635-1 (modified)	Failure Load Stage	>12
FZG Gear Scuffing - High Speed Shock Loading Axle test	FZG-L-42	ring and pinion scoring (%)	Pass
SRV Friction and Wear test	ASTM D6425 / DIN 51834	friction/wear scar diam. (mm)	0.107/0.55

Subject to usual manufacturing tolerances

Additional Information

- Miscible and compatible with mineral, unleaded gear oils at any proportion.
- Maximum performance is only guaranteed if not mixed with any other product.
- Compatible with conventional sealing materials or paints in gear housings.
- Filtering (mechanical) does not lead to additive starvation.
- Not for synchro-mesh transmissions or locking differentials.

Optigea	r RMO								
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